SERVICE HANDBUCH
SERVICE MANUAL

video-vision V 1403
987.300 H / 987.301 K

Teil 1 Schaltungen und
Elektrische Einstellungen
Part 1 Circuit diagrams and
Electronic Adjustments

NORDMENDE

TECHNISCHER KUNDENDIENST

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77-03 181.960/I

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Hinweis:

Das vorliegende Service-Handbuch enthält den kompl. Schaltbildteil und die elektrischen Einstellungen.

Die mechanischen Einstellungen entnehmen Sie bitte dem Service-Handbuch V 1205 – V 1245 (181.902/IV).

Note:

This service manual includes the complete circuit diagrams and electronic adjustments.

The mechanical adjustments quote from the service manual V 1205 – V 1245 (181.902/IV).

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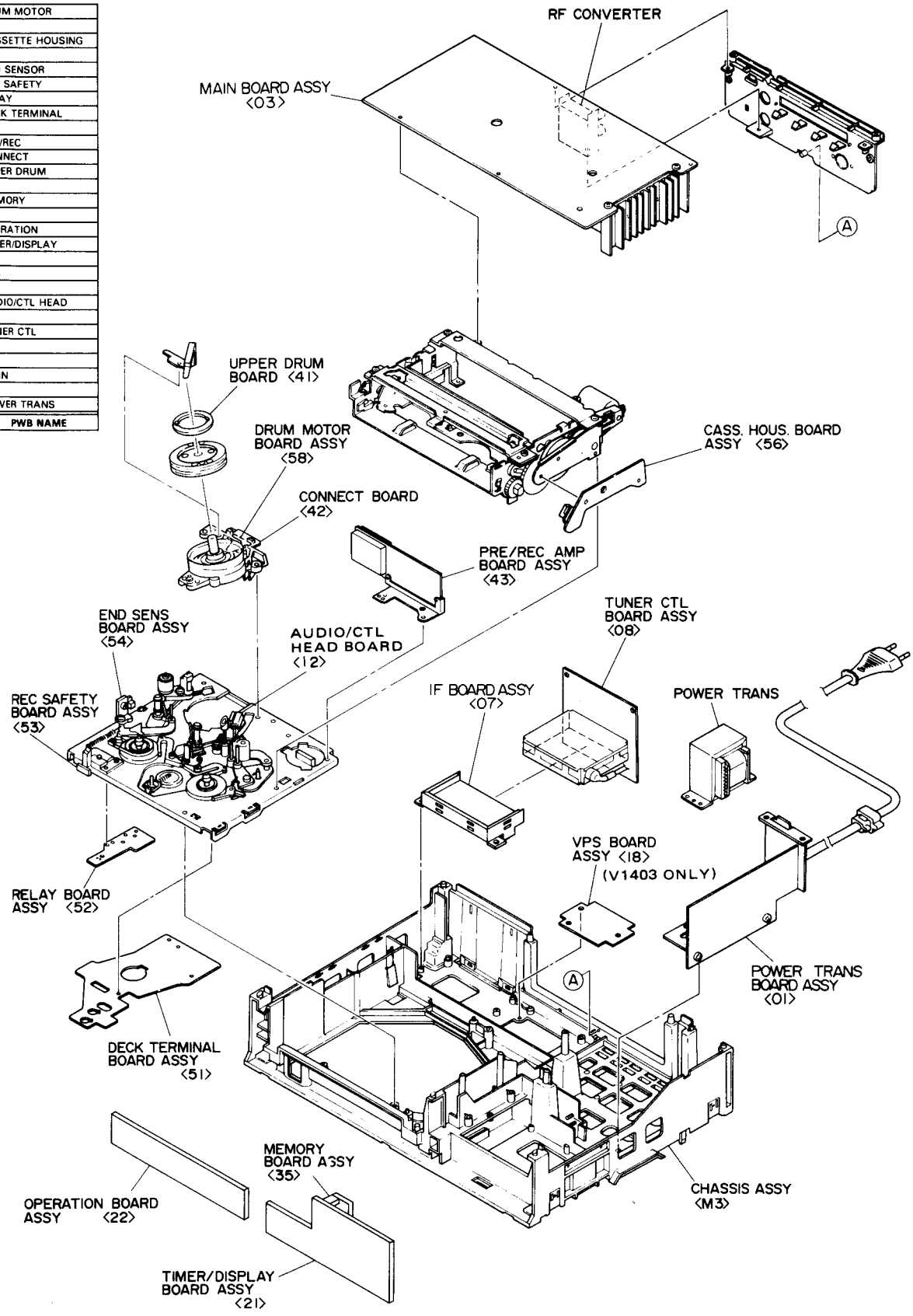
Lageplan der Leiterplatten
Circuit board locations

NO.	PWB NAME
58	DRUM MOTOR
56	CASSETTE HOUSING
54	END SENSOR
53	REC SAFETY
52	RELAY
51	DECK TERMINAL
43	PRE/REC
42	CONNECT
41	UPPER DRUM
35	MEMORY
22	OPERATION
21	TIMER/DISPLAY
18	VPS
12	AUDIO/CTL HEAD
08	TUNER CTL
07	IF
03	MAIN
01	POWER TRANS



1. Einstellanweisung der Mechanik

1.1 Justage des Mode Controlschalters

1. Wenn die Bohrung in der Steuerplatte mit der Bohrung im Laufwerk zur Deckung gekommen ist, muß sich die V-Markierung des Schiebers mit der V-Markierung des Mode Controlschalters decken.

2. Bei Abweichungen von mehr als 0,5 mm muß der Mode Controlschalter nach Entlöten und Lösen der Schraube in die korrekte Position gebracht werden.

1. Mechanical adjustment

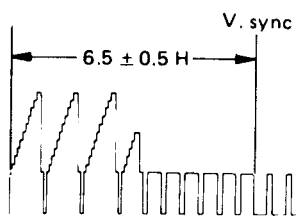
1.1 Mode select switch

1. When the hole of the plate assembly overlaps the hole of main-desk, refer to Fig. 1-3-4, confirm that the V-cut of the slider section just overlaps the V-cut of the outer section of the mode select switch.

2. If the difference more than 0.5 mm is noticed, adjust the mode select switch to the correct position after unsoldering and loosening the screw.

2. Elektrische Einstellungen

2. Electrical adjustments

	Einstellung / Item	Betriebsart Eing.-Signal / Mode & signal	Meßmittel / Test equipment	Meßpunkt / Test point	Einst.-Punkt / Adjustment point	Einstellschritte / Description
2.	Falls nicht anders angegeben, befinden sich alle Meß- und Abgleichpunkte auf der Hauptleiterplatte Unless otherwise specified, all test points and variable resistors are located on the Main board					
2.1	**Servoschaltung / servo circuit**					
2.1.1	Wiedergabe-Kopfschaltpunkt	PB, MH 2 Grautreppenteil	Oszilloskop Triggerung ext. TP 411	TP 110	R 430	1. Die Triggerpolarität auf minus stellen. 2. Den Triggerpunkt auf 6,5 ± 0,5 H vor dem Vertikalimpuls einstellen.
	PB switch-point	PB, MH 2 stairsteps	Oscilloscope trigger ext. TP 411	TP 110	R 430	1. Set the trigger slope to minus. 2. Adjust to position the trigger point 6,5 ± 0,5 H before V.sync.
	Fig. 2-1-1 					
	Vor der Einstellung des V-Impulses muß die Phasenlage des Kontrollkopfes korrekt eingestellt werden. Before the adjustment of V-Pulse position the "control head phase adjustment" must be completed.					
2.1.2	V-Impuls	REC, Farbbalken dann PB	Monitor		R 434	1. Bei Wiedergabe der gerade angefertigten Aufnahme auf Pause schalten und auf minimales vertikales Zittern des Bildes einstellen.
	V-pulse position	REC, colour bar then PB	monitor		R 434	1. Play back the recorded tape and set to still mode, then adjust for minimum vertical jitter.
2.2	**Videoschaltung / Video circuit** Falls nicht anders angegeben, befinden sich alle Meß- und Einstellpunkte auf der Hauptleiterplatte. Unless otherwise specified, testpoints and variable resistors are located on the Main board.					
2.2.1	VXO	PB, MH 2 Farbbalken	Frequenz-zähler	TP 209 FSC	R 207 VXO	1. Auf 4,433619 MHz ± 50 Hz einstellen.
	VXO	PB, MH 2 colour bar	frequency-counter	TP 209 FSC	R 207 VXO	1. Adjust for 4,433619 MHz ± 50 Hz.

	Einstellung	Betriebsart Eing.-Signal	Meßmittel	Meßpunkt	Einst.-Punkt	Einstellschritte
	Item	Mode & signal	Test equipment	Test point	Adjustment point	Description
2.2.2	REC Farbpegel	PB, MH 2 Farbbalken REC, SP Farbbalken dann PB	Oszilloskop	TP 207 REC Col Level	 R 214	1. Mit dem Trackingeinsteller den maximalen Ausgangspegel für das Farbsignal einstellen und den höchsten Wert notieren. 2. Den Trackingeinsteller in die Rastposition bringen. 3. Während der Aufnahme so einstellen, daß der Farbpegel bei Wiedergabe 90 ± 5 % des notierten Wertes beträgt. Hierbei dürfen die Signale von Kanal 1 und Kanal 2 maximal um 3 dB differieren.
	REC Colour level	PB, MH 2 colour bar REC, SP colour bar then PB	Oscilloscope	TP 207 REC Col Level	 R 214	1. Set the tracking control for maximum colour level and make a note of the higher colour level. 2. Set the tracking control to the center click position. 3. During recording adjust, to get a PB colour level of 90 ± 5 % of the noted value. At this time, confirm a channel difference of max. 3 dB.
2.2.3	PB Frequenzgang	REC-FuBk Testbild dann PB	Monitor		 R 127	1. Den Schärfeeinsteller (R 402) in Mittelstellung bringen. 2. Während der Wiedergabe so einstellen, daß die Farbübergänge sauber erscheinen, aber noch keine Übersteuerung an den Schwarz-weißübergängen entsteht. Hinweis: R 127 sollte nach der Einstellung annähernd in Mittelposition stehen.
	Pb frequency response	REC - FuBk picture then PB	monitor		 R 127	1. Set the sharpness preset to the center detent position. 2. Adjust during PB so that colour transition is clearly and no b/w reversal appears. Note: After adjustment R 127 should nearly be at center position.
2.2.4	SECAM DET	E-E, SECAM Farbbalken REC, SECAM dann PB	Oszilloskop	TP 251	L 251 R 257	1. Umschaltpunkt genau auf die Mitte zwischen "A" und "B" einstellen. s. Fig. 2-2-1. 2. Auf 6 V ± 0,5 V_{SS} einstellen.
	SECAM DET	E-E, SECAM colour bar REC, SECAM then PB	Oscilloscope	TP 251	L 251 R 257	1. Adjust so that the transistion step becomes centered between "A" and "B" as shown in Fig. 2-2-1. 2. Adjust for 6,0 ± 0,5 V_{p-p}.

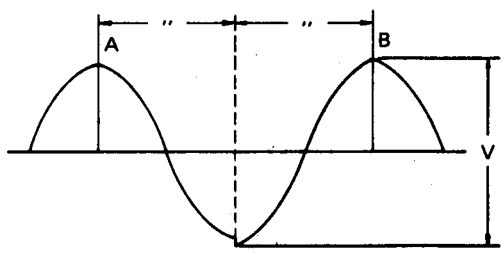
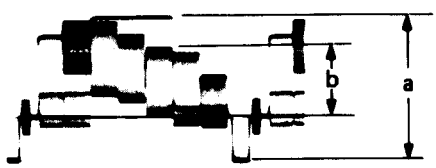


Fig. 2-2-1

	Einstellung	Betriebsart Eing.-Signal	Meßmittel	Meßpunkt	Einst.-Punkt	Einstellschritte
	Item	Mode & signal	Test equipment	Test point	Adjustment point	Description
2.3	**Audio - Schaltung / Audio circuit**					
	Falls nicht anders angegeben, befinden sich alle Meß- und Einstellpunkte auf der Hauptleiter-Platine					
	Unless other wise specified, testpoints and variable resistors are located on the Main board.					
2.3.1	Audio VM	REC, kein Audiosignal	Digital-voltmeter	TP 31 TP 32 GND	R 41	1. Auf 3,5 mV ± 0,2 mVeff einstellen.
	Audio bias level	REC no audio signal	Digital voltmeter	TP 31 TP 32 GND	R 41	1. Adjust for 3,5 mV ± 0,2 mVrms
2.4	**Tuner / ZF-Schaltung - Tuner / IF circuit**					
2.4.1	VCO	E-E, Tuner Farbsignal	Monitor		T_1	1. Auf bestmöglichen Bildeindruck einstellen.
		E-E, tuner Coloursignal	monitor		T_1	1. Adjust to obtain a fine picture on the monitor.
2.4.2	AFC	E-E, Tuner Farbsignal	Oszilloskop	TP 110	T_2	1. Bei ausgeschalteter AFC optimal abstimmen und den Wert des Burst-Signales notieren. 2. AFC einschalten und auf gleichen Wert einstellen.
		E-E, tuner Coloursignal	Oscilloscope	TP 110	T_2	1. With AFC switch OFF perform fine tuning to optimum point and make a note of the burst level. 2. Set AFC to ON and adjust to the same level as noted.
2.4.3	Farbpegel	E-E Farbbalken Normsignal	Oszilloskop	CN 2 Pin 3	R 42	1. Den Anteil des Magenta-Farbbalkens auf 48 % des gesamten Y-Signals einstellen.
	Colour Level	E-E colour bar Normsignal	Oscilloscope	CN 2 Pin 3	R 42	1. Adjust the magenta level to 48 % of the complete Y-Signal.
	 b : magenta a : b = 1 : 0.48 Fig. 2-4-1					
2.4.4	HF-Regel-spannung	E-E, Tuner Farbsignal	Monitor		R 18	1. Auf minimalsten Störeindruck und geringste Kreuzmodulationserscheinungen einstellen. 2. Bei allen empfangbaren Kanälen obige Bedingungen sicherstellen.
	RF-AGC	E-E, tuner Coloursignal	monitor		R 18	1. Adjust to minimize streaks and noise on the monitor screen. 2. Check for absence of abnormality on all channels.

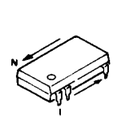
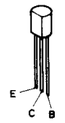
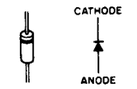
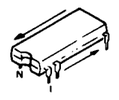
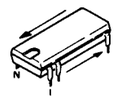
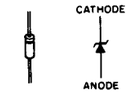
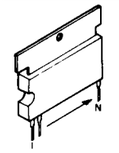
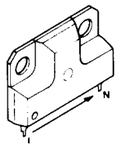
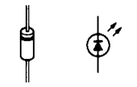
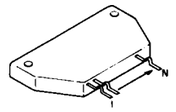
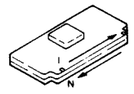
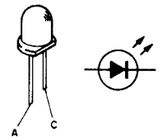
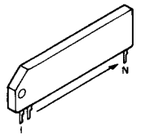
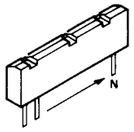
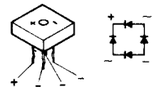
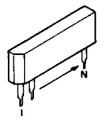
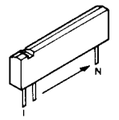
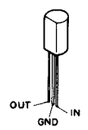
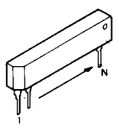
Halbleiter-Übersicht und Sockelschaltungen
Main types of active and package circuits

INTEGRATED CIRCUIT		
	NAME	L
A	AN3380K	2A
B	BA10358 BA6222 BA6259N BA7007 BA7751ALS	2B 3A 5B 6B 5A
H	HD49712NT	1A
I	IC-PST523H-2	7A
L	LA7910	7B
M	MN1220 MSM6967RS M50731-623SP M51496P M5278L05 M5278L56 M54647L	2A 8A 2B 2B 7A 7A 3B
P	PU22046A PU22516B	4B 4B
S	STK5481	4A
T	TA7374P	8B
U	UPD75208CW-097	2A

TRANSISTOR		
	NAME	L
D	DTA114ES DTA124ES DTC124ES DTC144ES DTC144WS	3C 3C 3C 3C 3C
P	PN268R	
2SA	2SA1309 2SA720 2SA933	3C 2C 3C
2SB	2SB810	3C
2SC	2SC1740 2SC3311 2SC3354 2SC3399 2SC3401 2SC536	3C 3C 1D 3C 3C 3C
2SD	2SD1450	3C

DIODE		
	NAME	L
H	HZS4.3EB2 HZS7.5EB2 HZT33-02 HZ30-2	2E 2E 2E 2E
L	LTZ-MR15	3E
M	MA165 MA27TB MTZ11B MTZ15B MTZ5.1	1E 1E 2E 2E 2E
R	RD10ES-T1B2 RD9.1ES-T1B2	2E 2E
S	SLR-55MC3F SLR-55VC3F SLR-55YC3F S4VB10-F2	4E 4E 4E 5E
	1SS132 1SS133 11E2	1E 1E 1E

Note: FOR INSTANCE, AN3380K →
2A: SEE COLUMN 2, LINE A

	Integrated Circuit		Transistor		Diode
	A	B	C	D	E
1					
2					
3					
4					
5					
6					
7					
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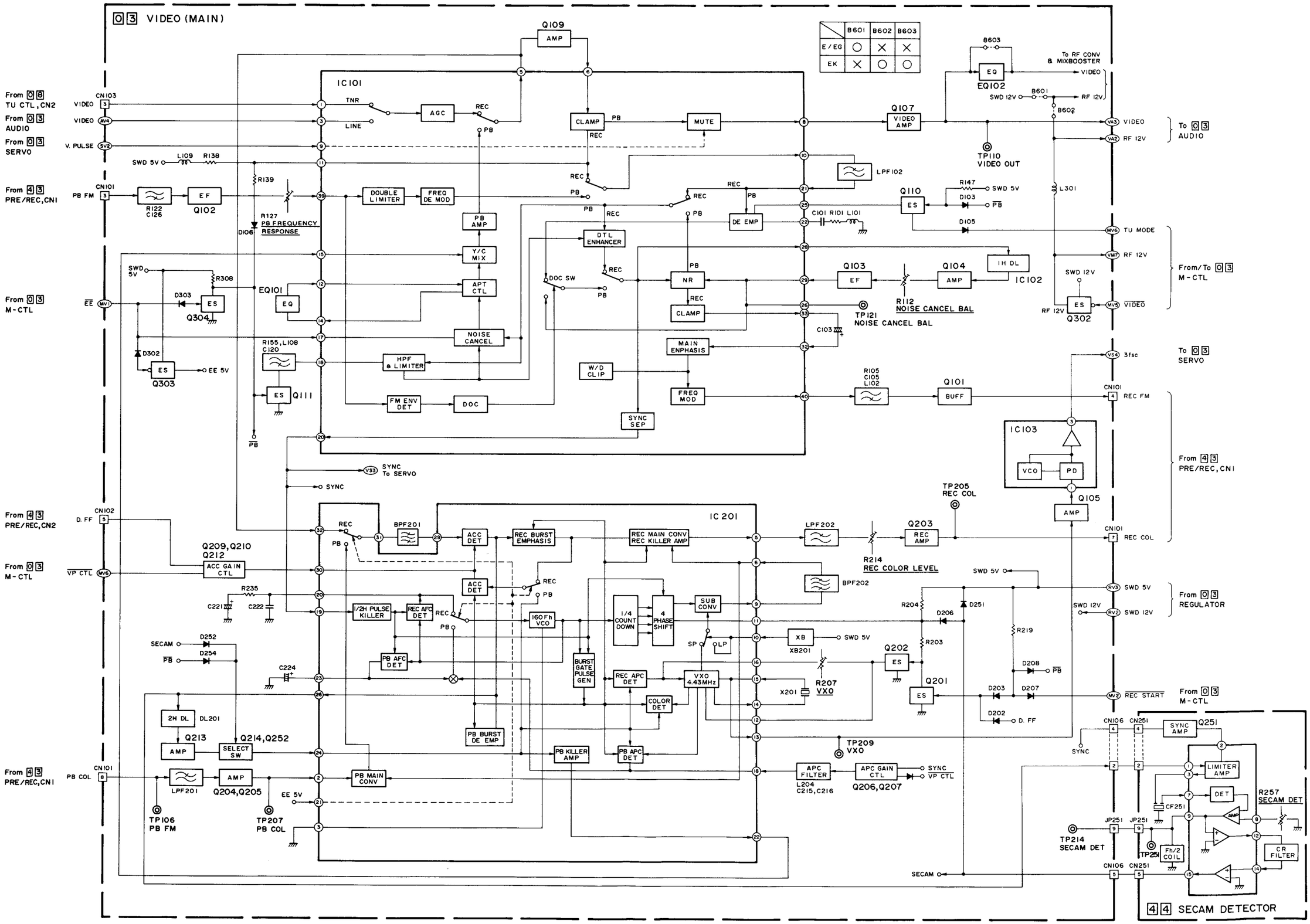
9					

Video Blockschaltbild
Video block diagram



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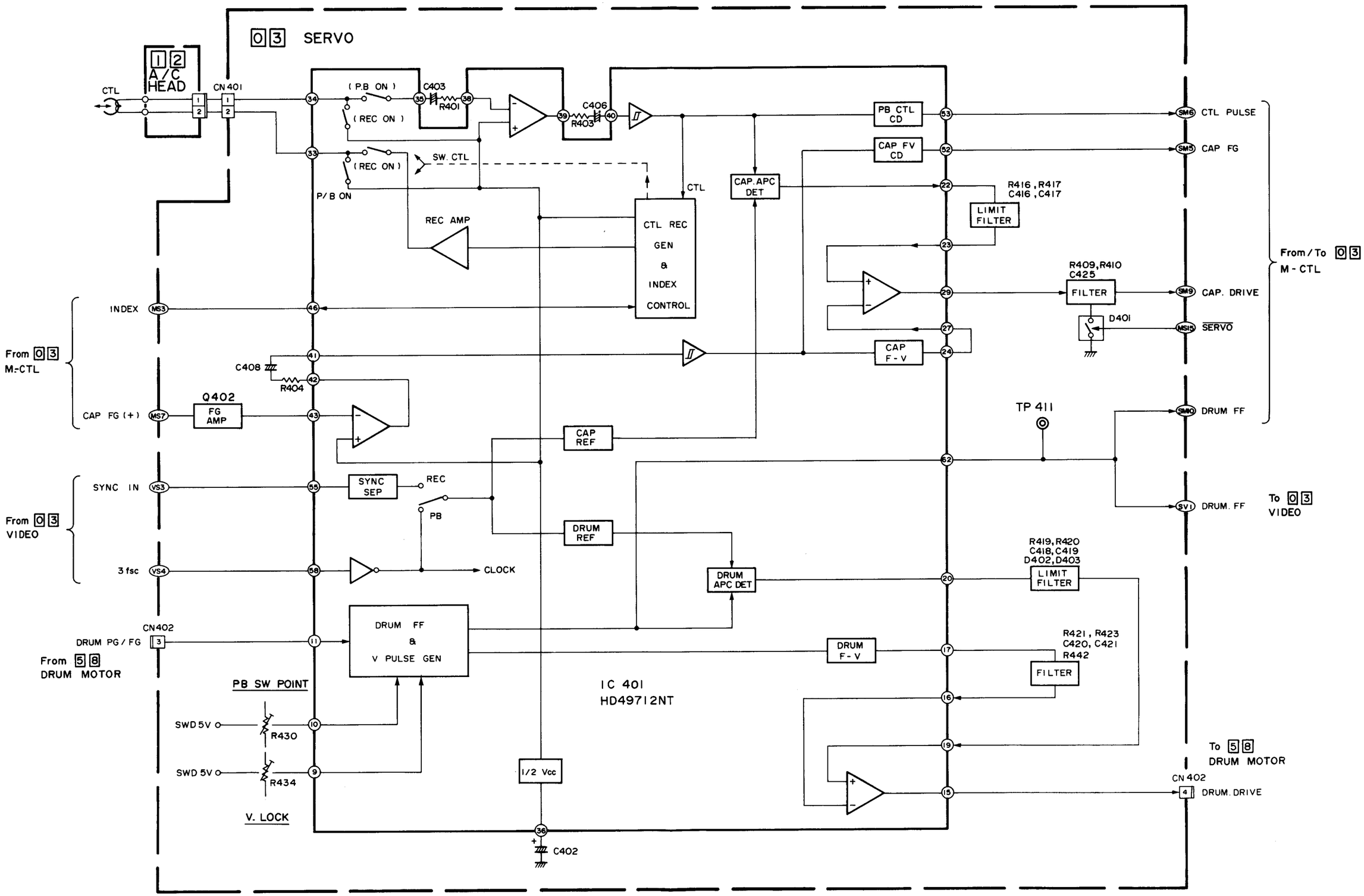
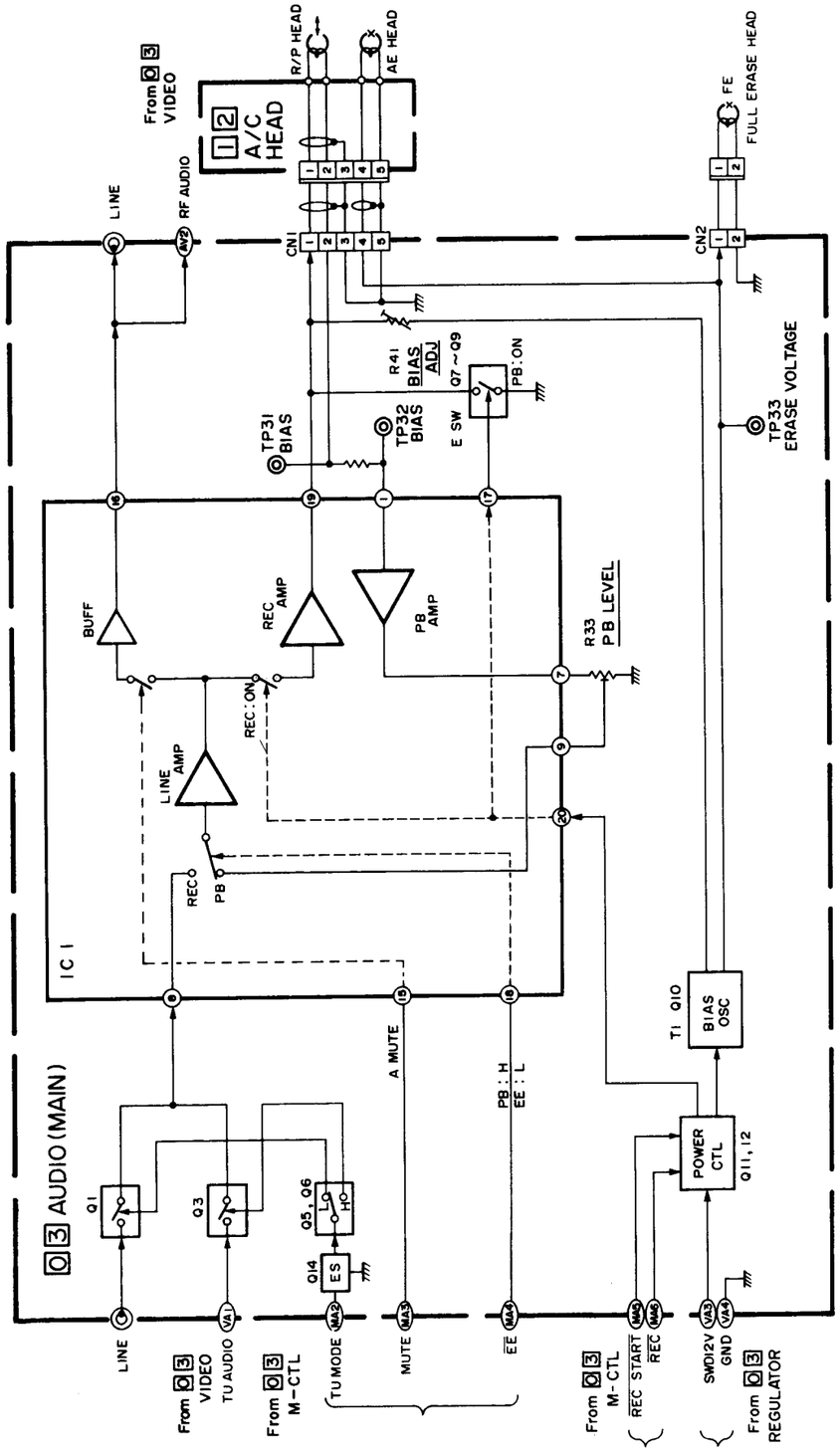
EK	×	○	○

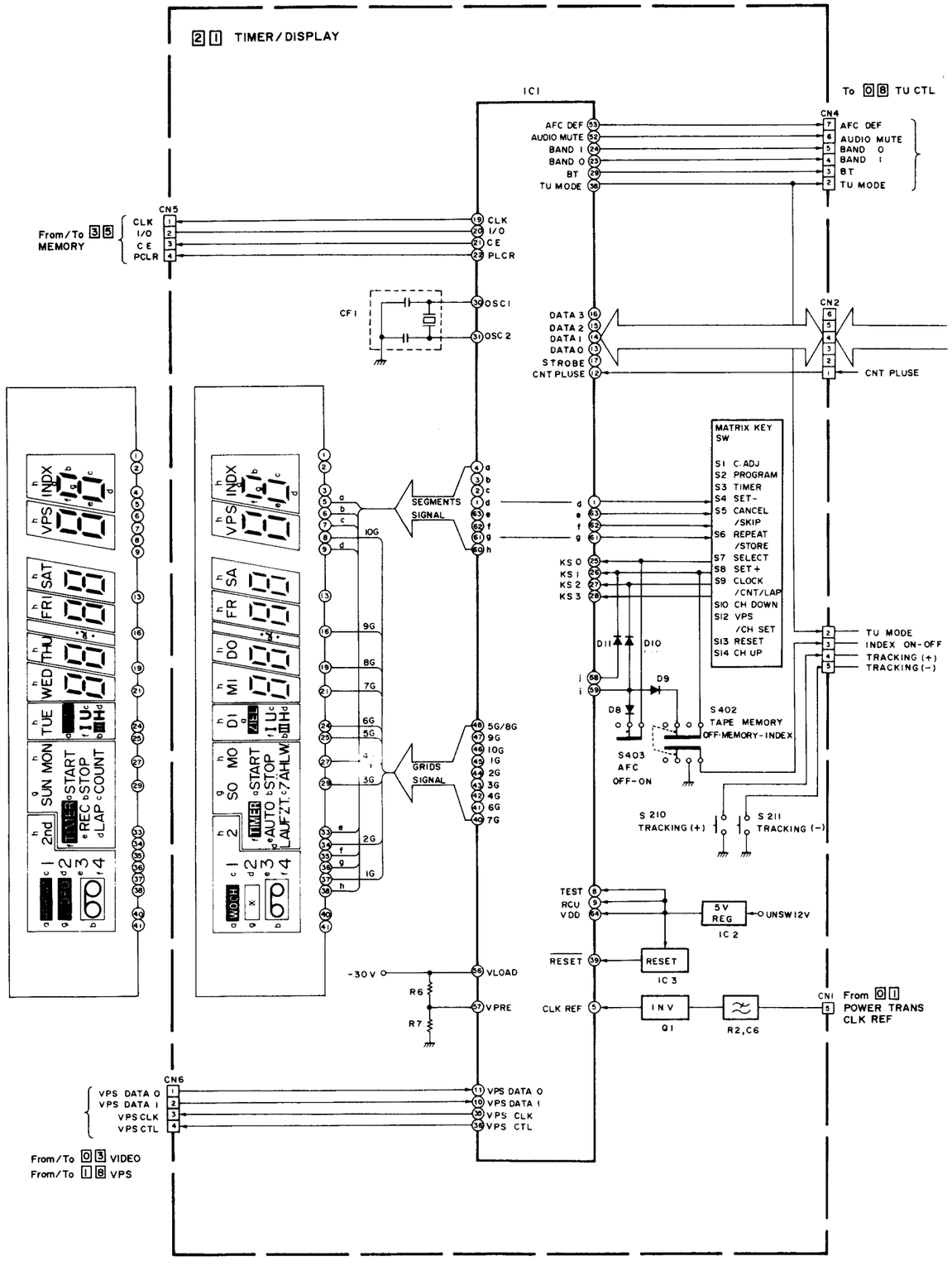
Servo Blockschaltbild
Servo block diagram

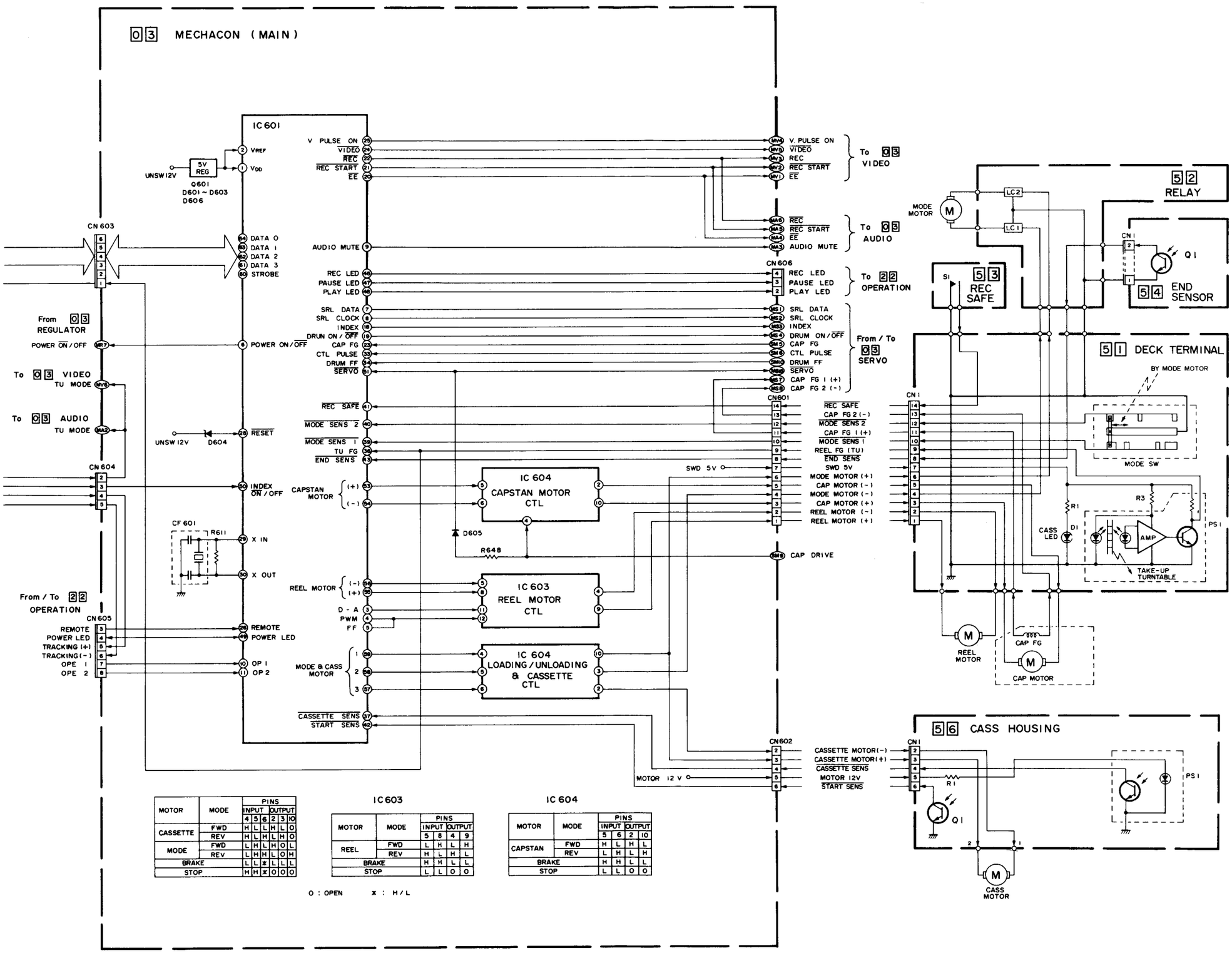


Audio Blockschaltbild
Audio block diagram



Timer/Display und Mechaniksteuerung Blockschaltbild
Timer/Display and mechanism control block diagram





MOTOR	MODE	PINS INPUT 4	5	6	OUTPUT 2	3	10
CASSETTE	FWD	H	L	L	H	L	O
	REV	H	L	H	L	H	O
MODE	FWD	L	H	L	H	O	L
	REV	L	H	H	L	O	H
BRAKE		L	L	x	L	L	L
STOP		H	H	x	O	O	O

IC603

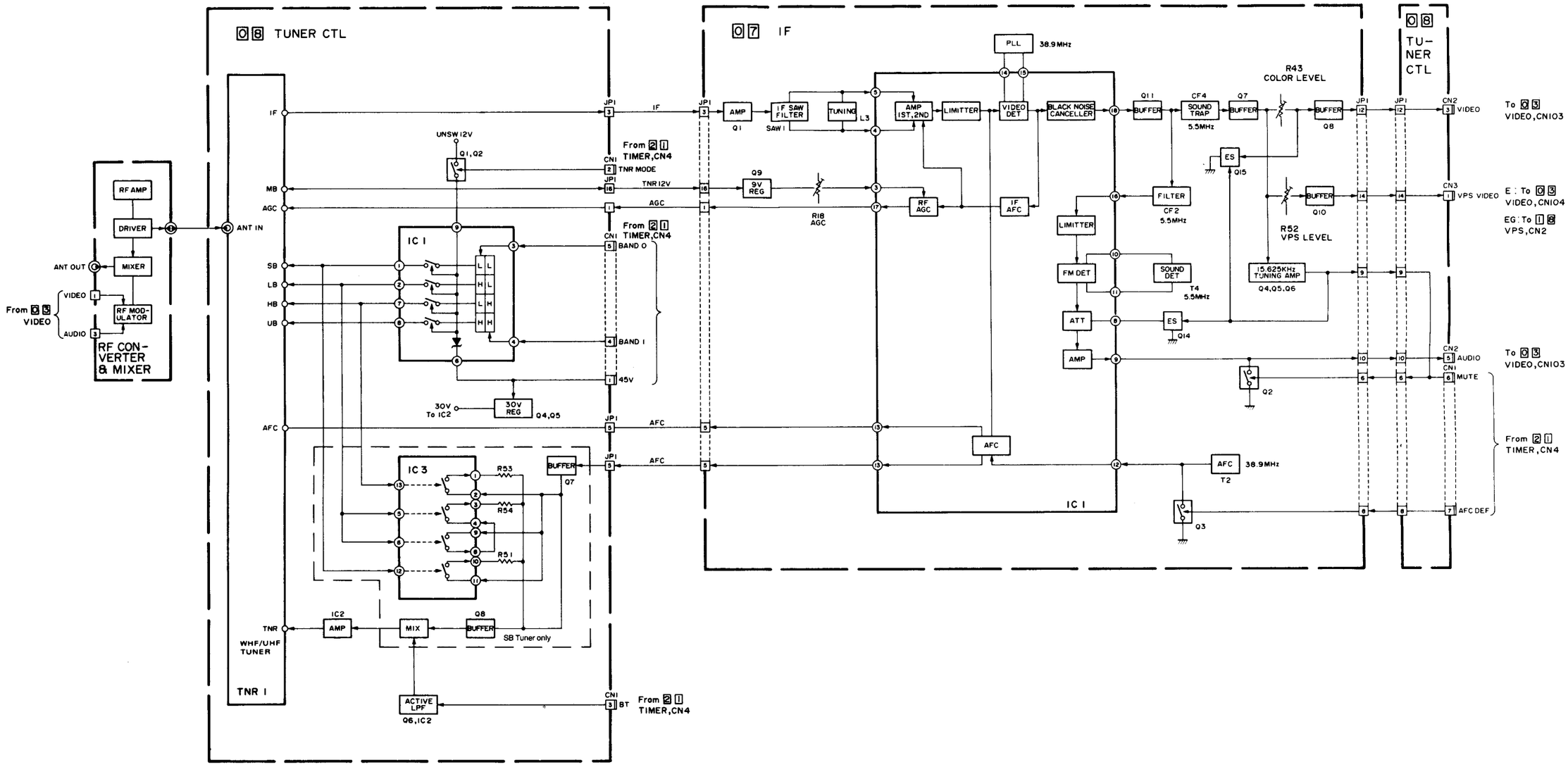
MOTOR	MODE	PINS INPUT 5	8	OUTPUT 4	9
REEL	FWD	L	H	L	H
	REV	H	L	H	L
BRAKE		H	H	L	L
STOP		L	L	O	O

IC604

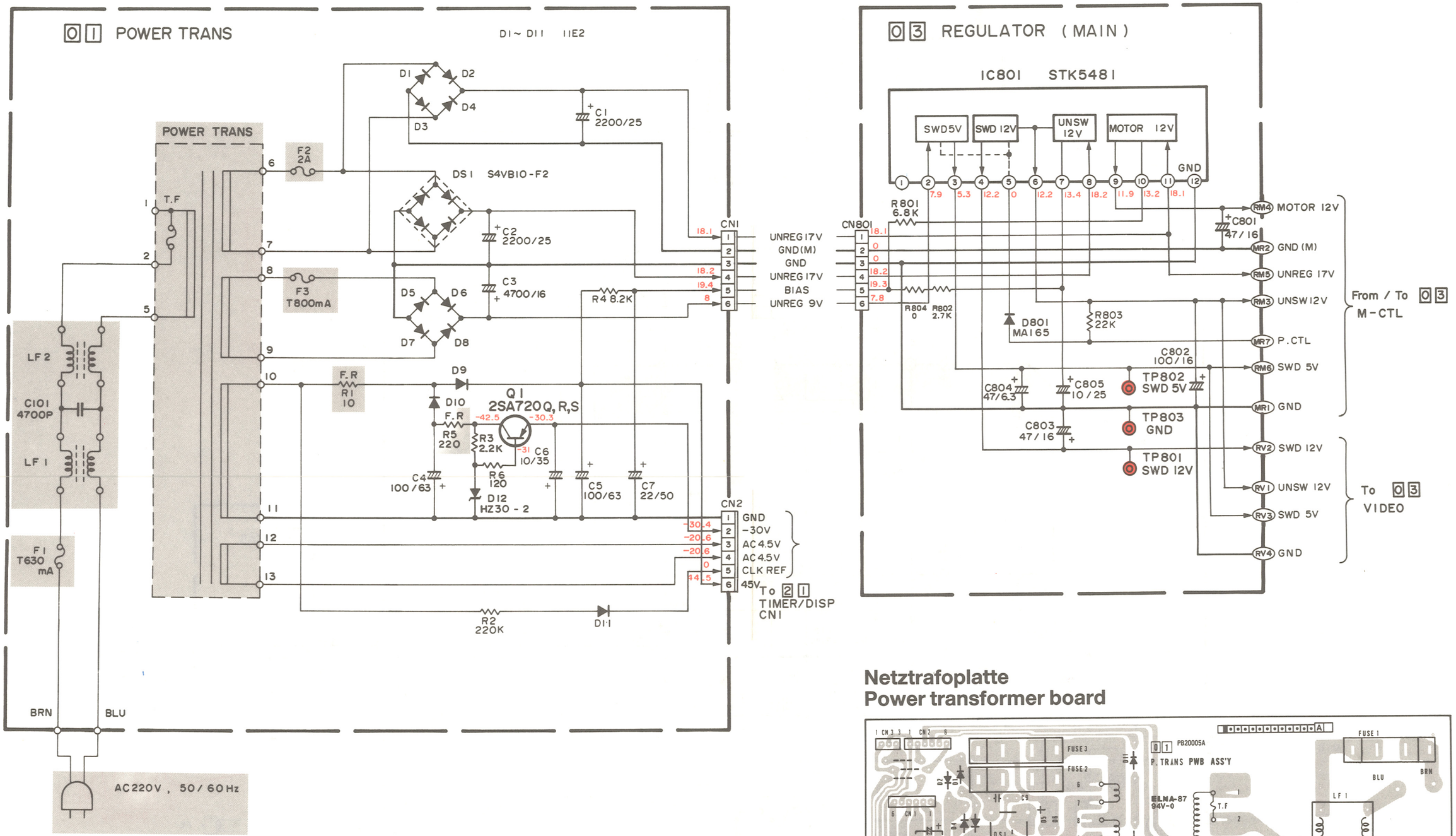
MOTOR	MODE	PINS INPUT 5	6	OUTPUT 2	10
CAPSTAN	FWD	H	L	H	L
	REV	L	H	L	H
BRAKE		H	H	L	L
STOP		L	L	O	O

O : OPEN x : H/L

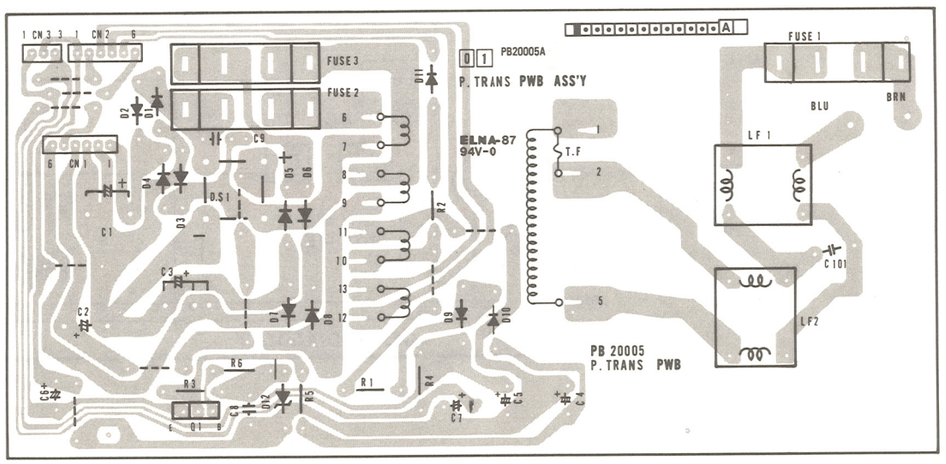
Tuner/ZF Blockschaltbild
Tuner CTL/IF block diagram



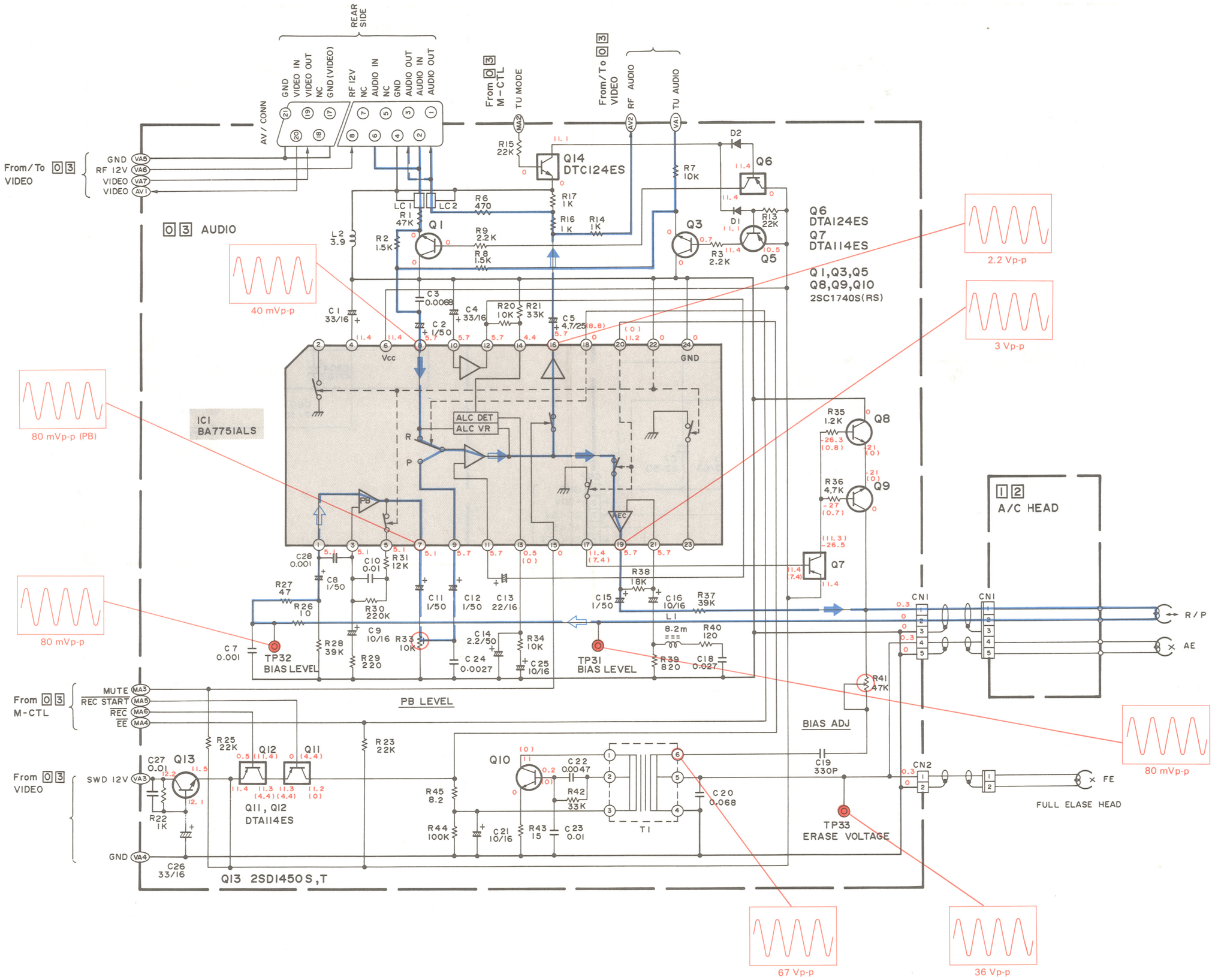
Netzteil
Power supply



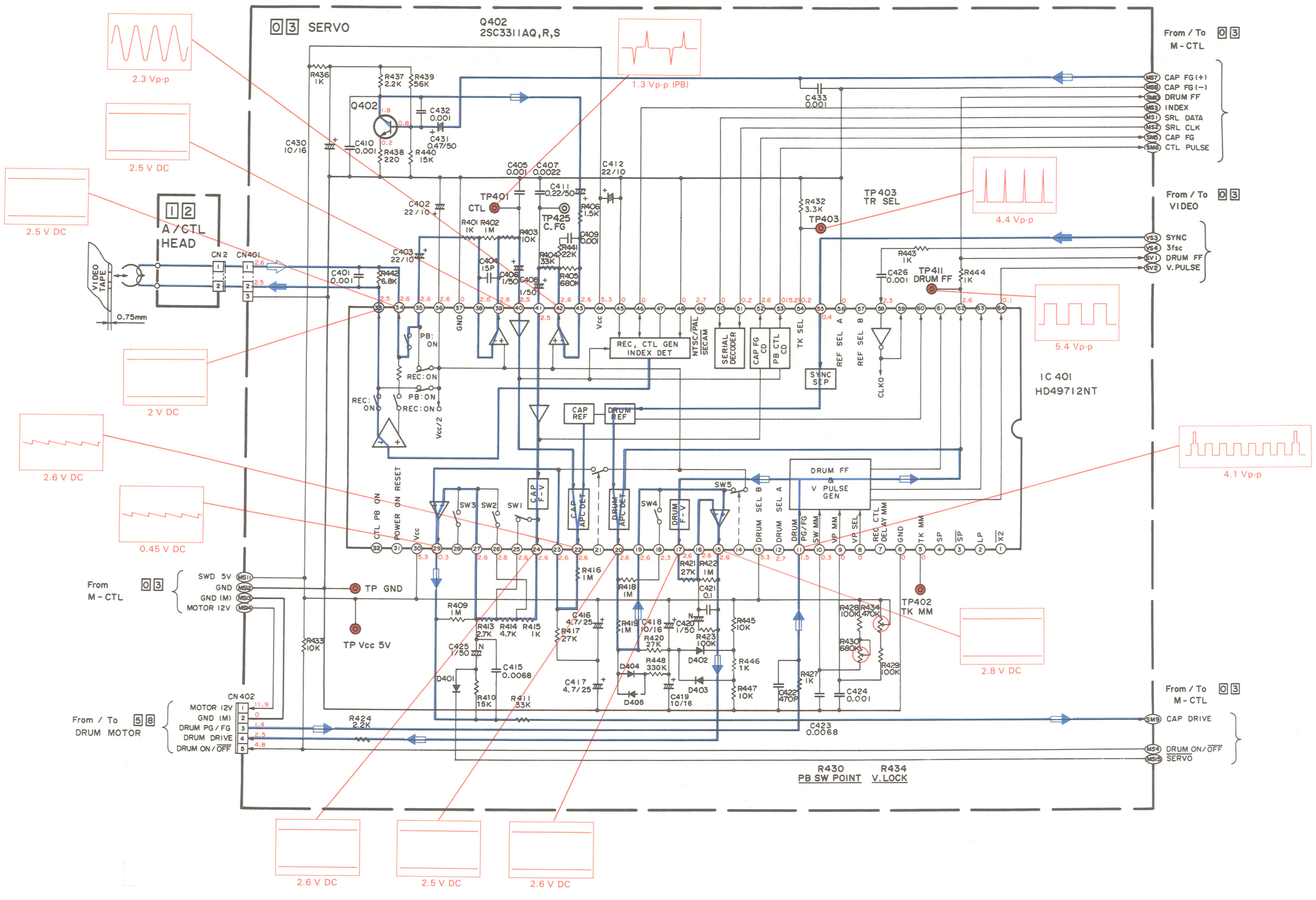
Netztrafoplatte
Power transformer board



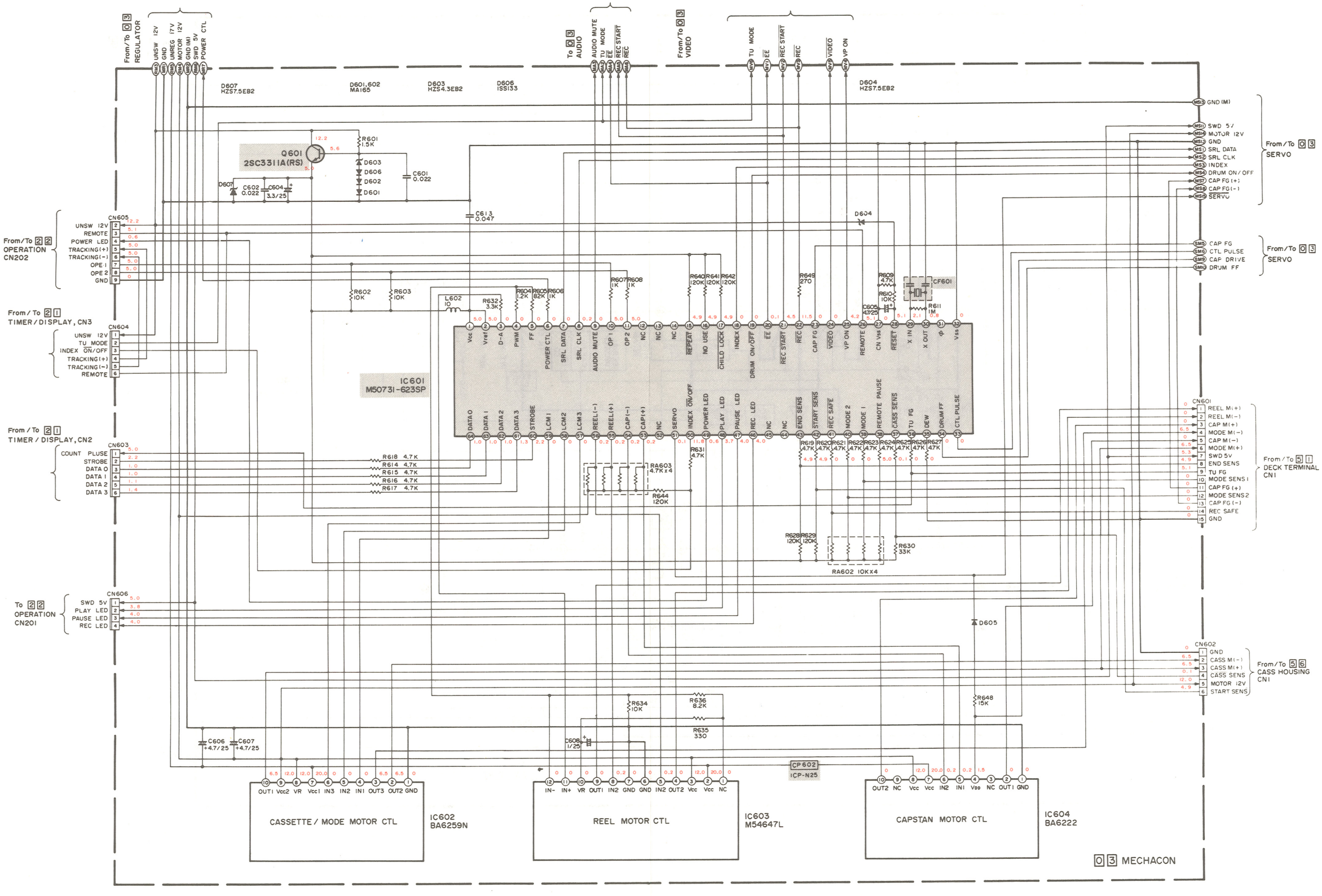
Audio


REAR SIDE
AV / CONN
GND
VIDEO IN
VIDEO OUT
NC
GND (VIDEO)
RF 12V
NC
AUDIO IN
NC
GND
AUDIO OUT
AUDIO IN
AUDIO OUT
From 03 M-CTL
TU MODE
From/To 03 VIDEO
RF AUDIO
TU AUDIO
From/To 03 VIDEO
GND
RF 12V
VIDEO
VIDEO
03 AUDIO
Q14 DTC124ES
Q6 DTA124ES
Q7 DTA114ES
Q1,Q3,Q5 Q8,Q9,Q10 2SC1740S(RS)
40 mVp-p
2.2 Vp-p
3 Vp-p
80 mVp-p (PB)
IC1 BA7751ALS
Vcc
GND
ALC DET
ALC VR
80 mVp-p
TP32 BIAS LEVEL
TP31 BIAS LEVEL
PB LEVEL
01 02 A/C HEAD
R/P
AE
FE
FULL ELASE HEAD
BIAS ADJ
80 mVp-p
From 03 M-CTL
MUTE
REC START
REC
EE
From 03 VIDEO
SWD 12V
GND
Q11, Q12 DTA114ES
Q13 2SD1450S,T
TP33 ERASE VOLTAGE
67 Vp-p
36 Vp-p

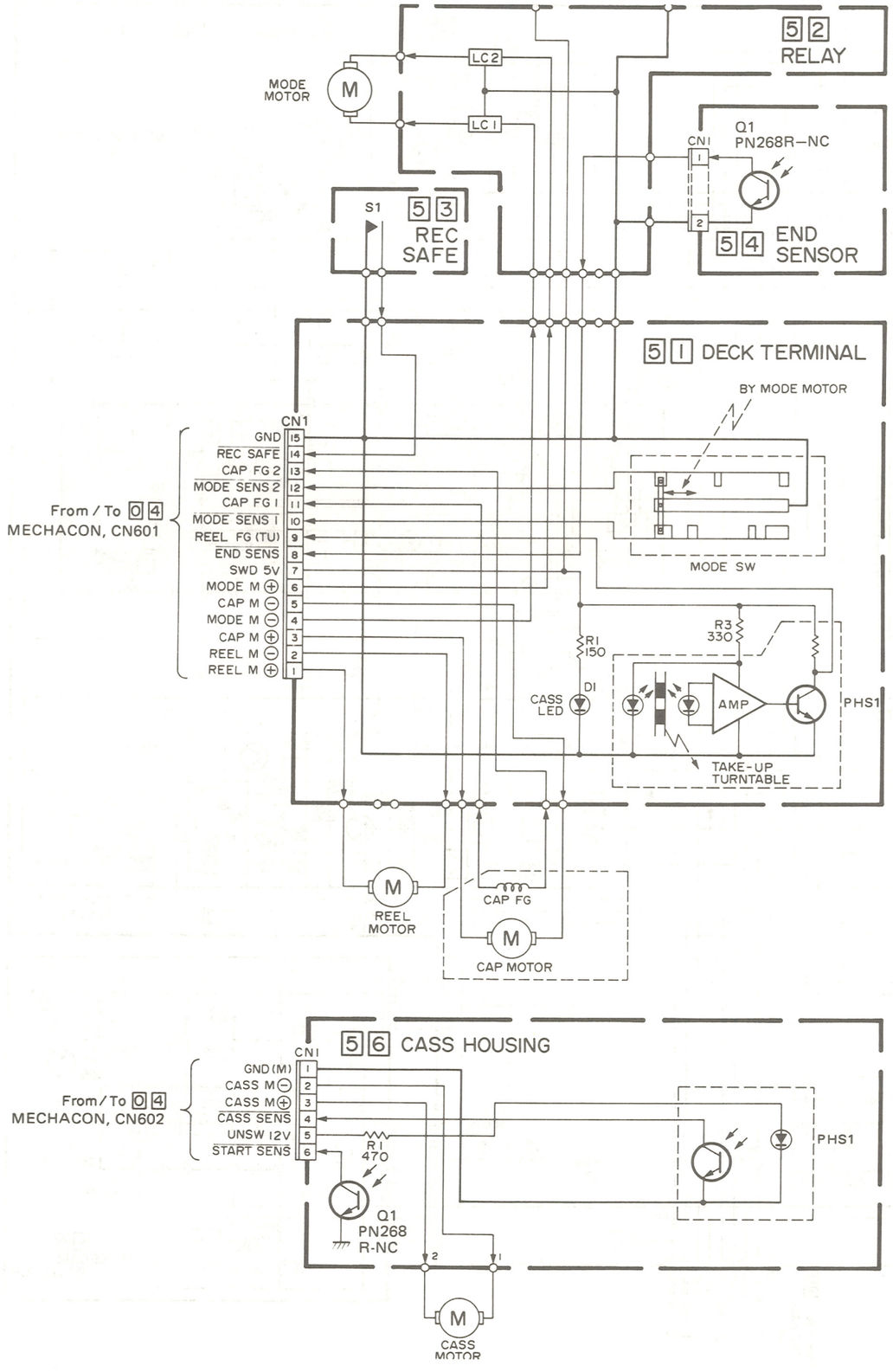
Servo


03 SERVO
Q402
2SC3311AQ,R,S
From / To 03
M-CTL
MS7 CAP FG(+)
MS8 CAP FG(-)
SM0 DRUM FF
MS3 INDEX
MS1 SRL DATA
MS2 SRL CLK
SM5 CAP FG
SM6 CTL PULSE
From / To 03
VIDEO
VS3 SYNC
VS4 3fsc
SV1 DRUM FF
SV2 V.PULSE
12 A/CTL HEAD
VIDEO TAPE
0.75mm
CN2
CN401
TP401 CTL
TP425 C.FG
TP403 TR SEL
TP411 DRUM FF
TP402 TK MM
TP GND
TP Vcc 5V
REC, CTL GEN INDEX DET
NTSC/PAL SECAM
SERIAL DECODER
CAP FG CD
PB CTL CD
TK SEL
SYNC SEP
REF SEL A
REF SEL B
CLKO
IC 401
HD49712NT
CAP REF
DRUM REF
PB: ON
REC: ON
REC: ON
PB: ON
REC: ON
Vcc/2
CTL PB ON
POWER ON RESET
Vcc
SW1
SW2
SW3
SW4
SW5
CAP F-V
CAP APC DET
DRUM APC DET
DRUM F-V
DRUM FF & V PULSE GEN
DRUM SEL B
DRUM SEL A
DRUM PG/FG
SW MM
VP MM
VP SEL
REC CTL DELAY MM
GND
TK MM
SP
SP
LP
X2
From / To 03
M-CTL
SM9 CAP DRIVE
MS4 DRUM ON/OFF
MS5 SERVO
From 03
M-CTL
SWD 5V
GND
GND (M)
MOTOR 12V
From / To 58
DRUM MOTOR
CN402
MOTOR 12V
GND (M)
DRUM PG/FG
DRUM DRIVE
DRUM ON/OFF
R430 PB SW POINT
R434 V.LOCK
2.3 Vp-p
2.5 V DC
2.5 V DC
2 V DC
2.6 V DC
0.45 V DC
1.3 Vp-p (PB)
4.4 Vp-p
5.4 Vp-p
4.1 Vp-p
2.8 V DC
2.6 V DC
2.5 V DC
2.6 V DC

Mechaniksteuerung
Mechanism control

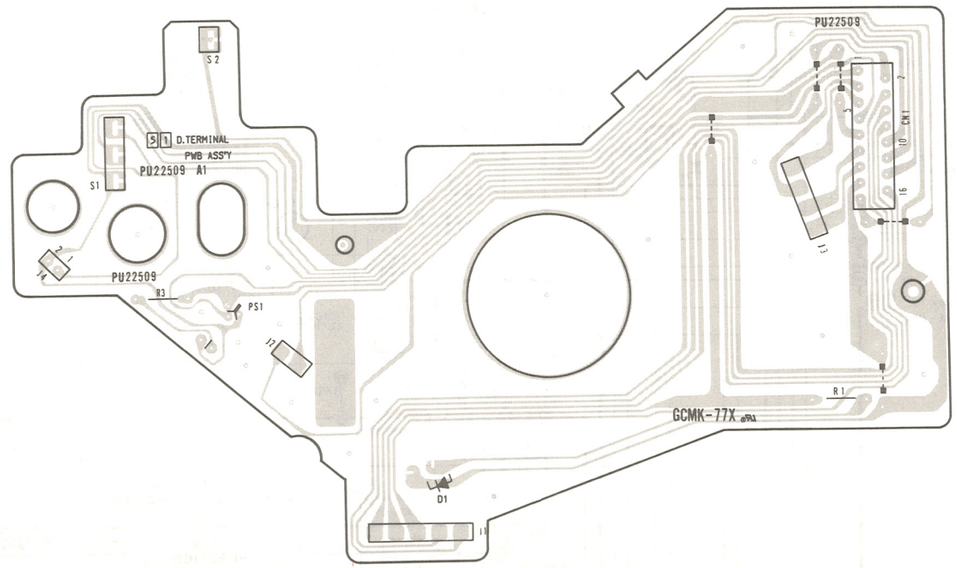


Laufwerk-Anschluß-Schaltungen
Deck terminal schematic diagrams

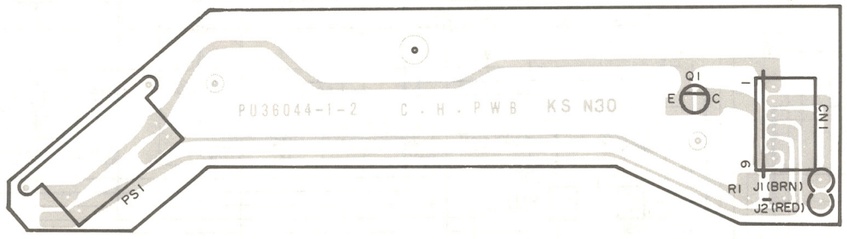


Laufwerk-Anschlußplatten
Deck terminal boards

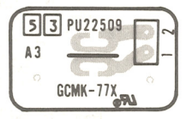
—DECK TERMINAL—



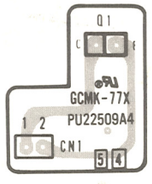
—CASSETTE HOUSING—



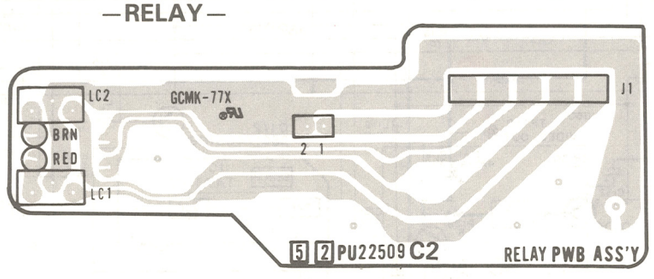
—REC SAFETY—



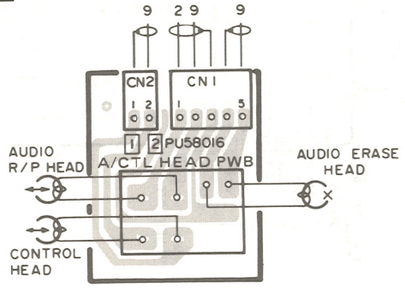
—END SENSOR—

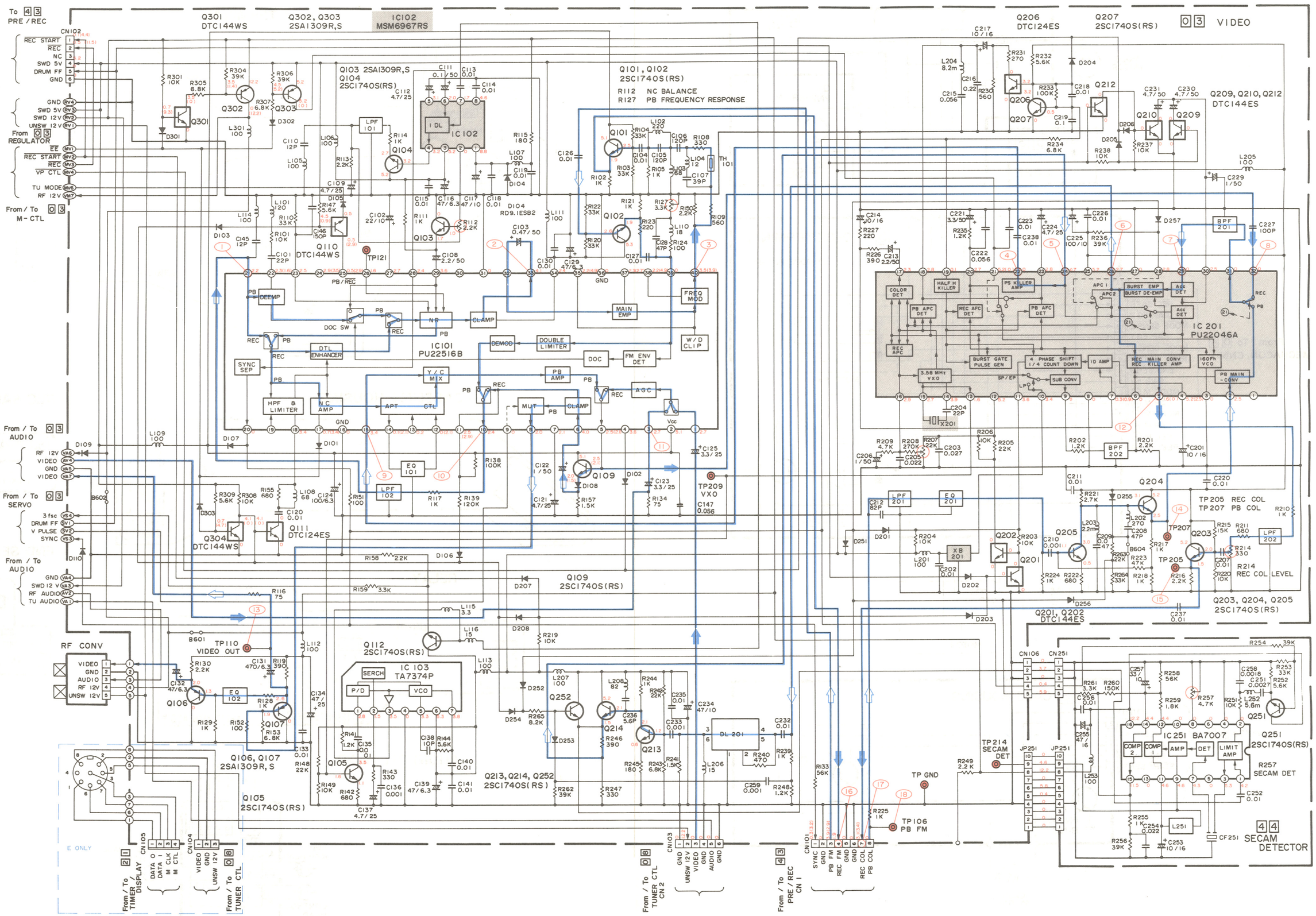


—RELAY—

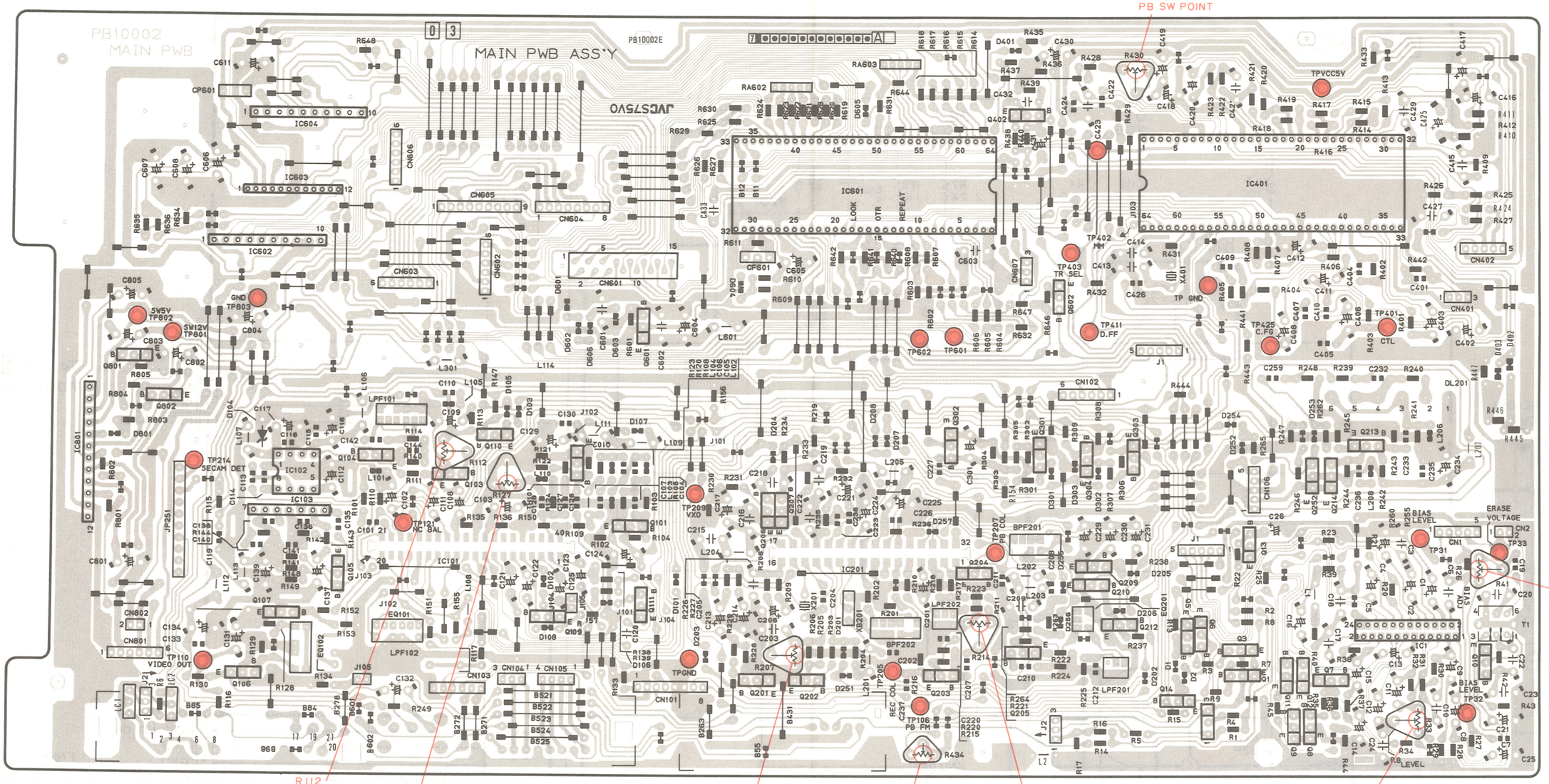


—AUDIO/CTL HEAD—




Q301 DTC144WS
Q302, Q303 2SA1309R,S
IC102 MSM6967RS
Q206 DTC124ES
Q207 2SC1740S(RS)
03 VIDEO
Q103 2SA1309R,S
Q104 2SC1740S(RS)
Q101, Q102 2SC1740S(RS)
R112 NC BALANCE
R127 PB FREQUENCY RESPONSE
Q209, Q210, Q212 DTC144ES
To 43 PRE / REC
From / To 03 REGULATOR
From / To 03 M-CTL
From / To 03 AUDIO
From / To 03 SERVO
From / To AUDIO
RF CONV
IC101 PU22516B
IC 201 PU22046A
IC 103 TA7374P
IC251 BA7007
Q110 DTC144WS
Q111 DTC124ES
Q304 DTC144WS
Q106, Q107 2SA1309R, S
Q105 2SC1740S(RS)
Q109 2SC1740S(RS)
Q112 2SC1740S(RS)
Q213, Q214, Q252 2SC1740S(RS)
Q203, Q204, Q205 2SC1740S(RS)
Q201, Q202 DTC144ES
Q251 2SC1740S(RS)
TP110 VIDEO OUT
TP209 VXO
TP106 PB FM
TP214 SECAM DET
TP GND
TP205 REC COL
TP207 PB COL
R214 REC COL LEVEL
R257 SECAM DET
44 SECAM DETECTOR
E ONLY
From / To TIMER / DISPLAY CN105
From / To TUNER CTL CN104
From / To TUNER CTL CN2
From / To PRE / REC CN1

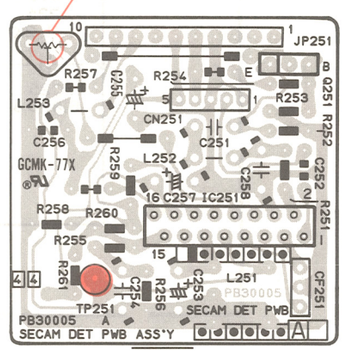
Hauptleiterplatte
Main board



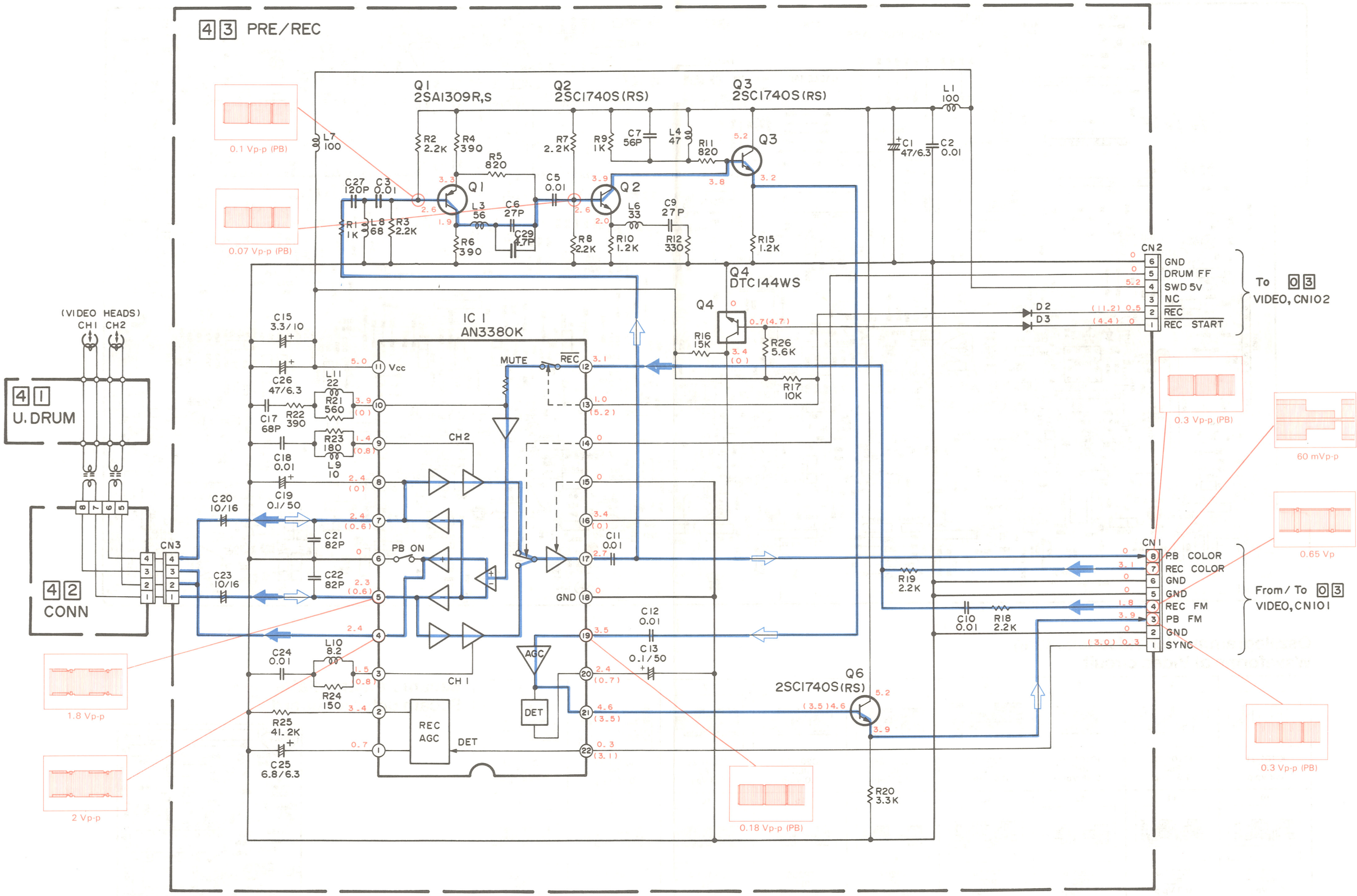
Oszillogramme der Videoschaltung
Waveforms of Video circuit

1	2	3	4	5	6	7	8	9
IC101-21 REC 0.3 Vp-p	IC101-33 REC 1.3 Vp-p	IC101-40 REC 0.95 Vp-p	IC201-22 PB 0.55 Vp-p	IC201-24 REC 0.3 Vp-p	IC201-26 REC 1.0 Vp-p	IC201-29 REC 0.3 Vp-p	IC201-32 PB 0.68 Vp-p	IC101-15 PB 0.55 Vp-p
10	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
IC101-10 REC 0.6 Vp-p	IC101-3 REC 0.8 Vp-p	IC201-5 REC 1.2 Vp-p	TP110 REC 2.0 Vp-p	TP207 PB 0.25 Vp-p	TP205 REC 50 mVp-p	CN101-4 REC 0.68 Vp-p	CN101-7 REC 50 mVp-p	TP106 PB 0.3 Vp-p

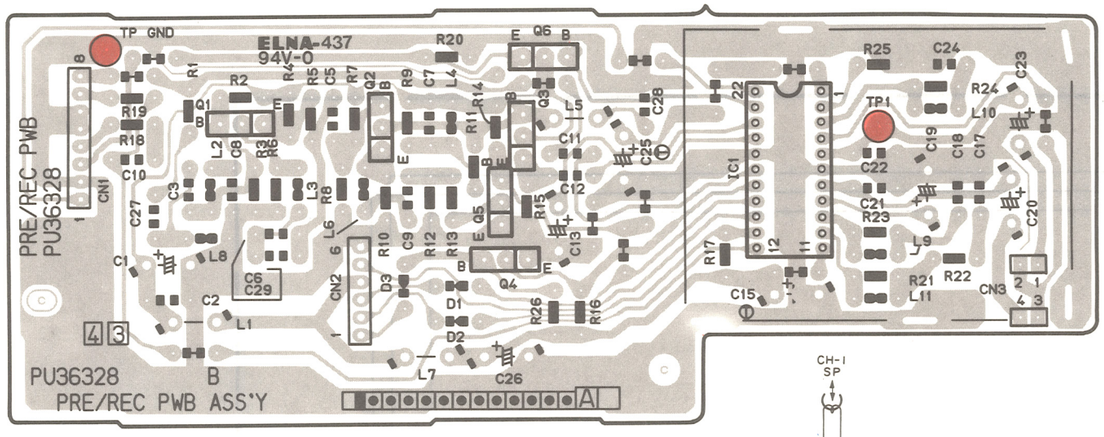
Secam Detektorplatte
Secam detector board

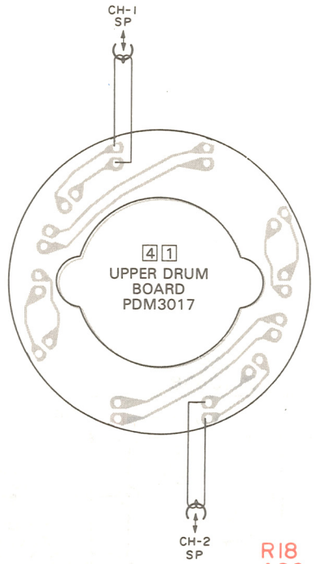


Aufnahme/Wiedergabe Vorverstärker
PRE/REC amplifier

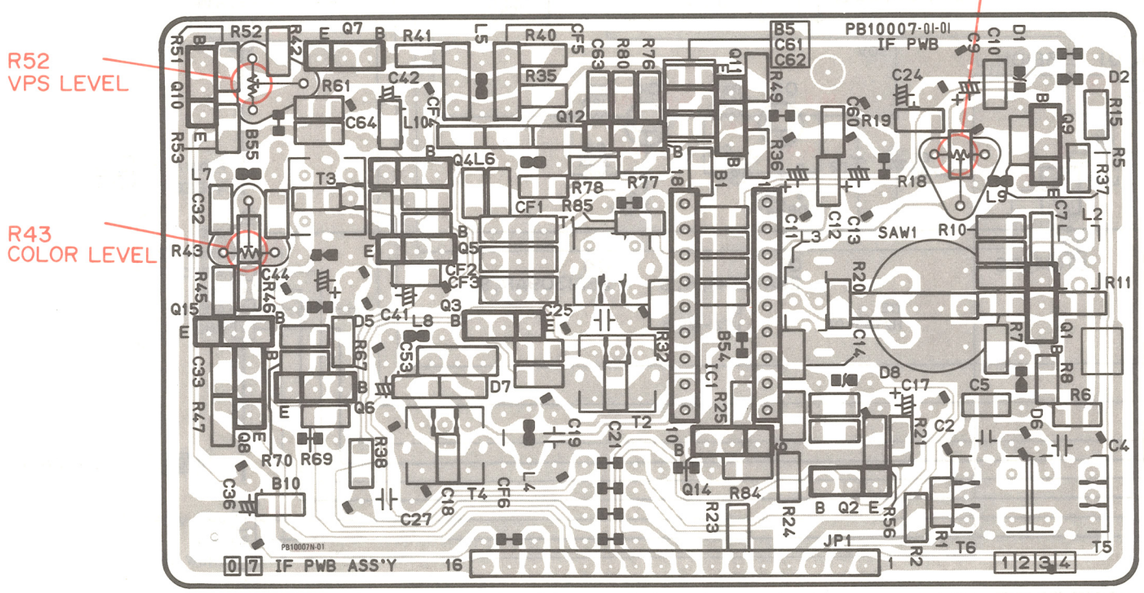


Aufnahme/Wiedergabe Vorverstärkerplatte
PRE/REC amplifier board

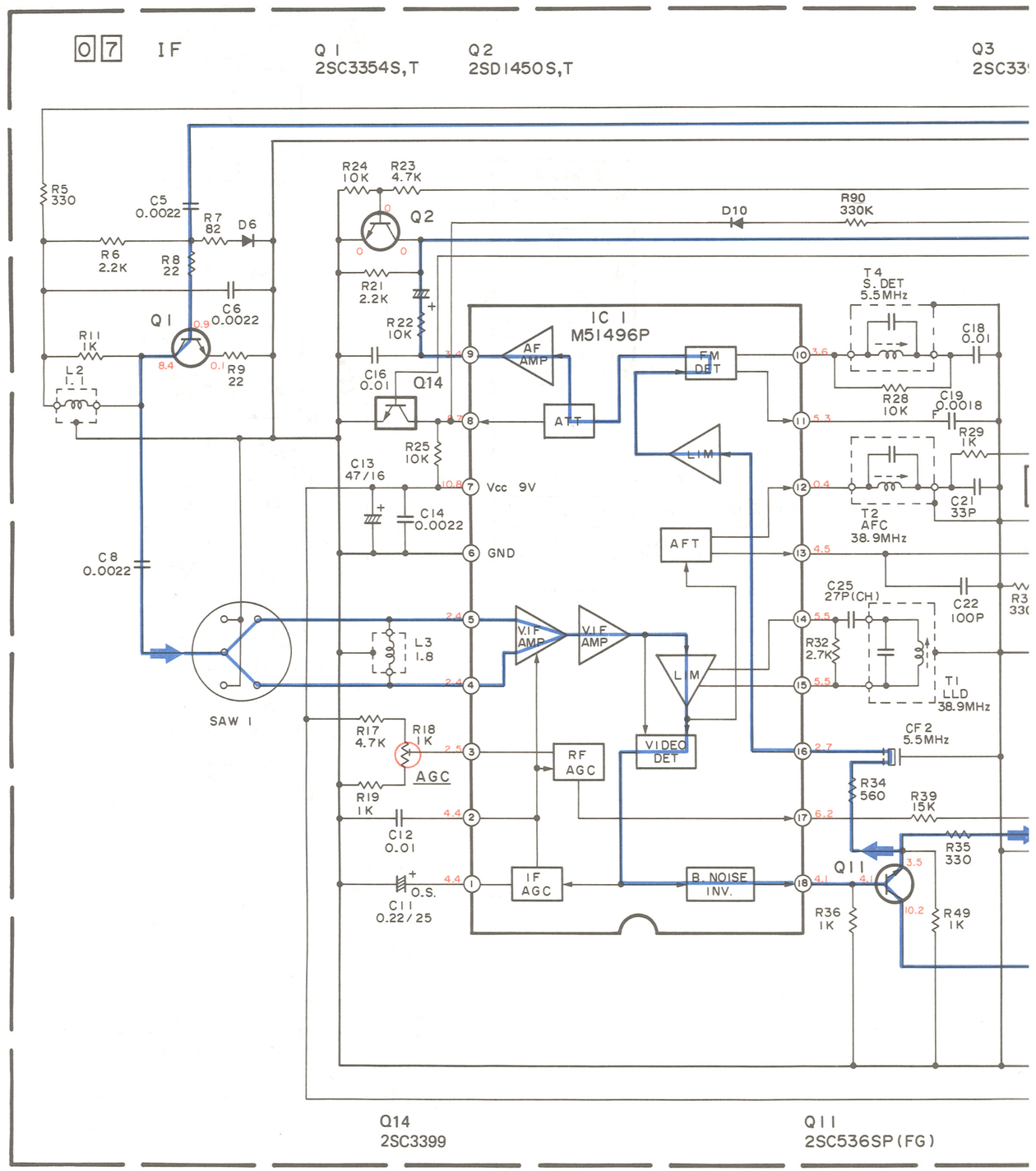




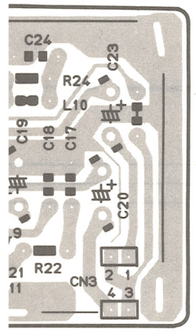
ZF-Verstärkerplatte
IF amplifier board

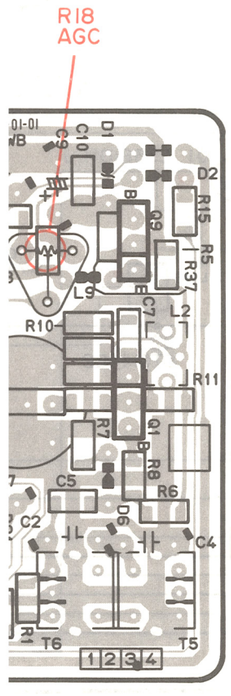


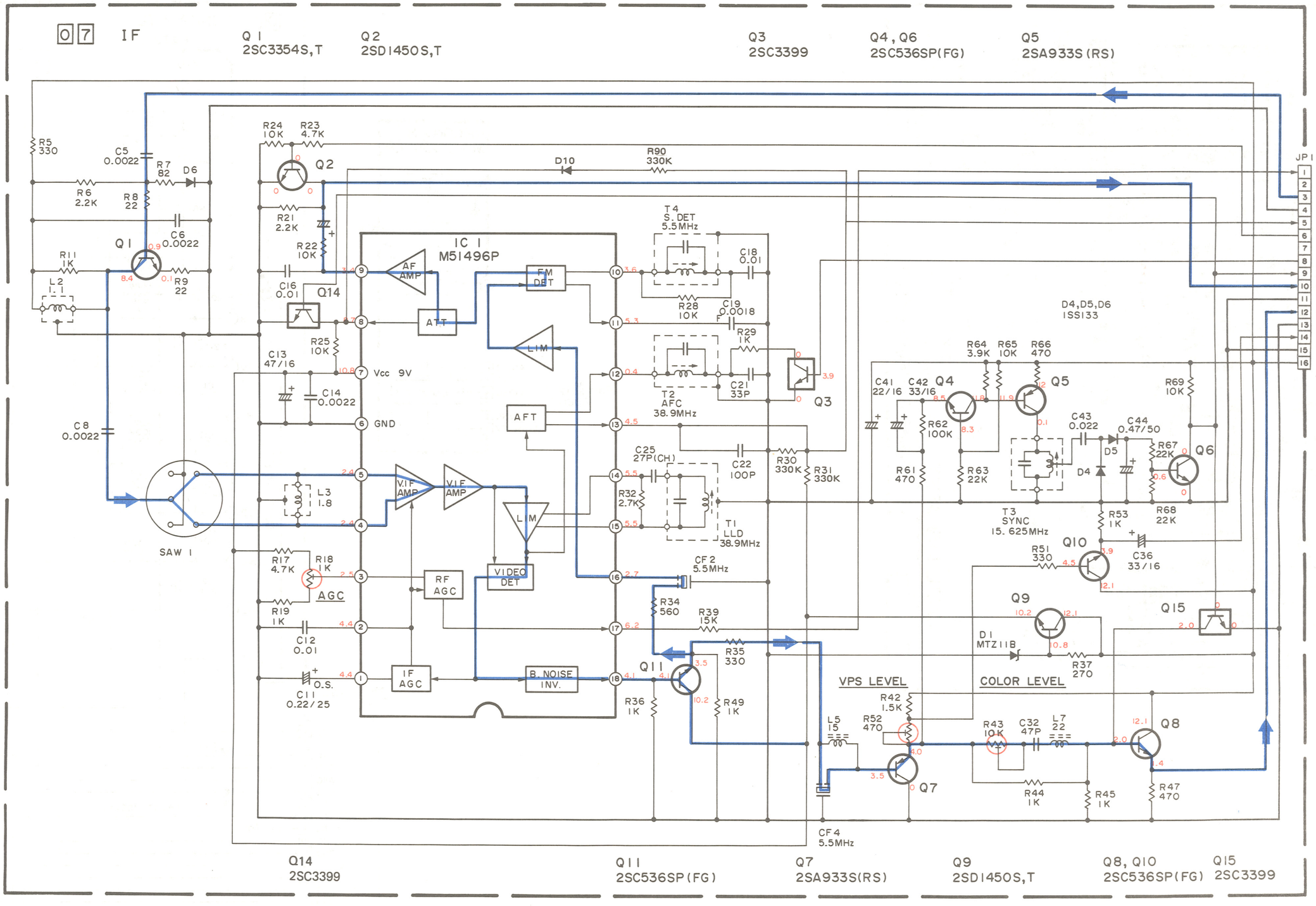
ZF-Verstärker
IF amplifier



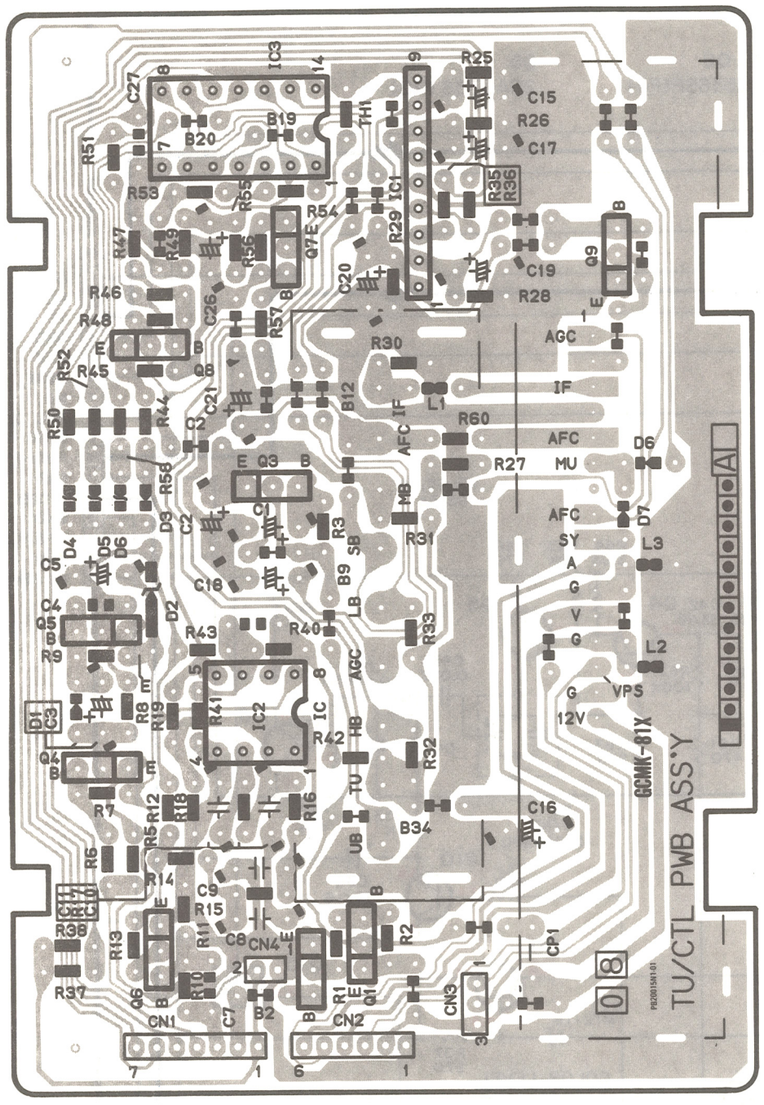
ZF-Verstärker
IF amplifier



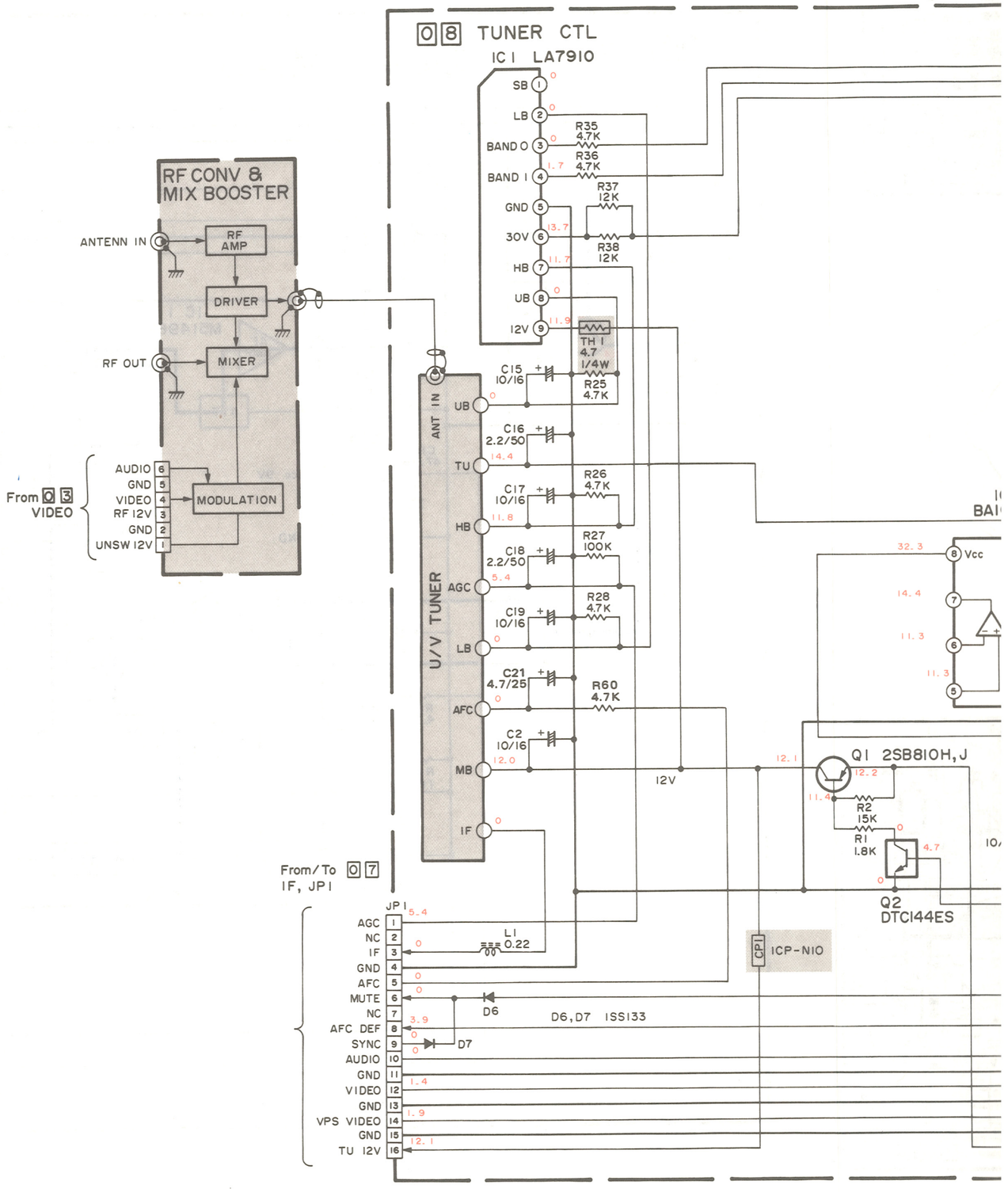




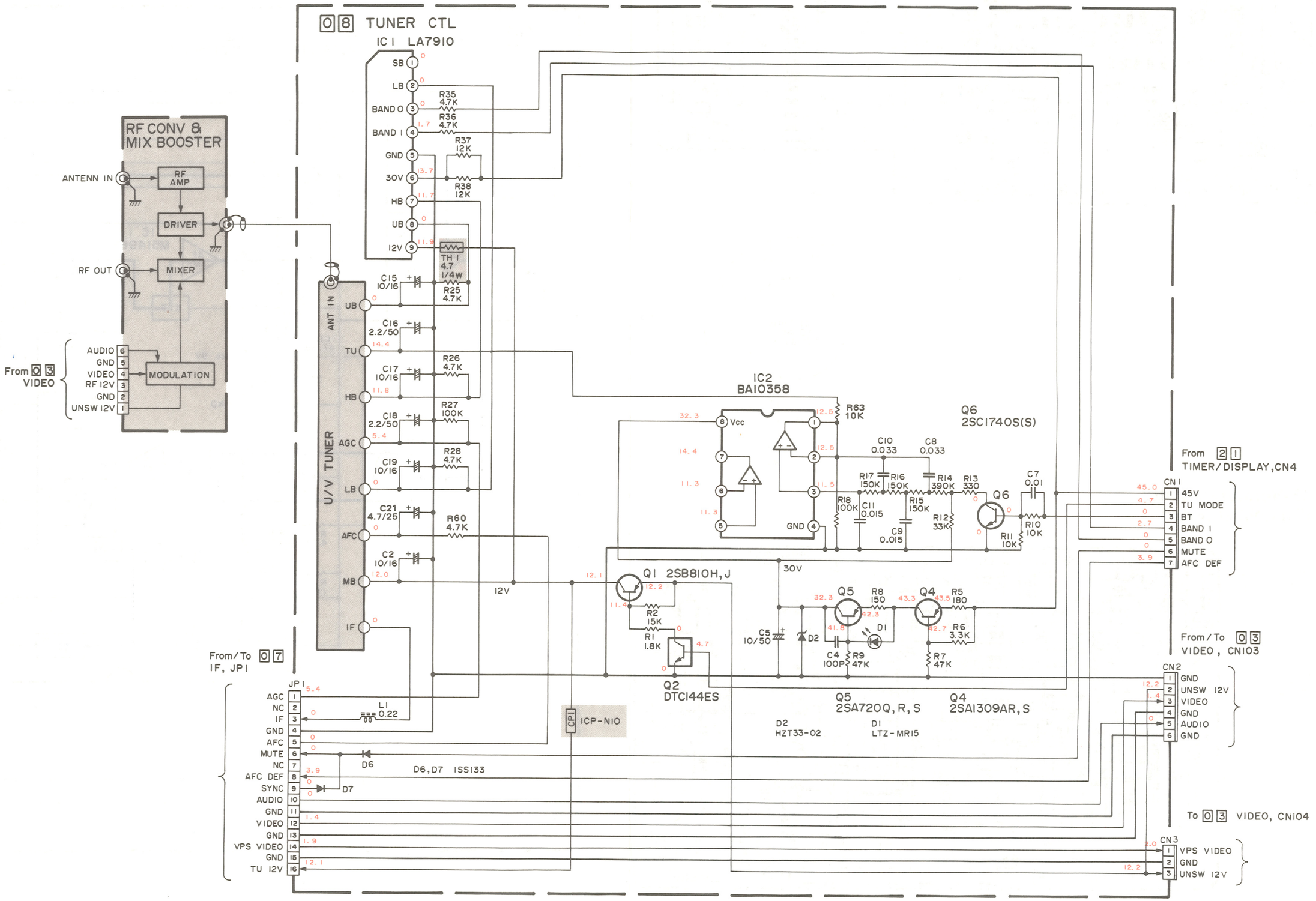
Tuner-/Kontrollplatte
Tuner/CTL board



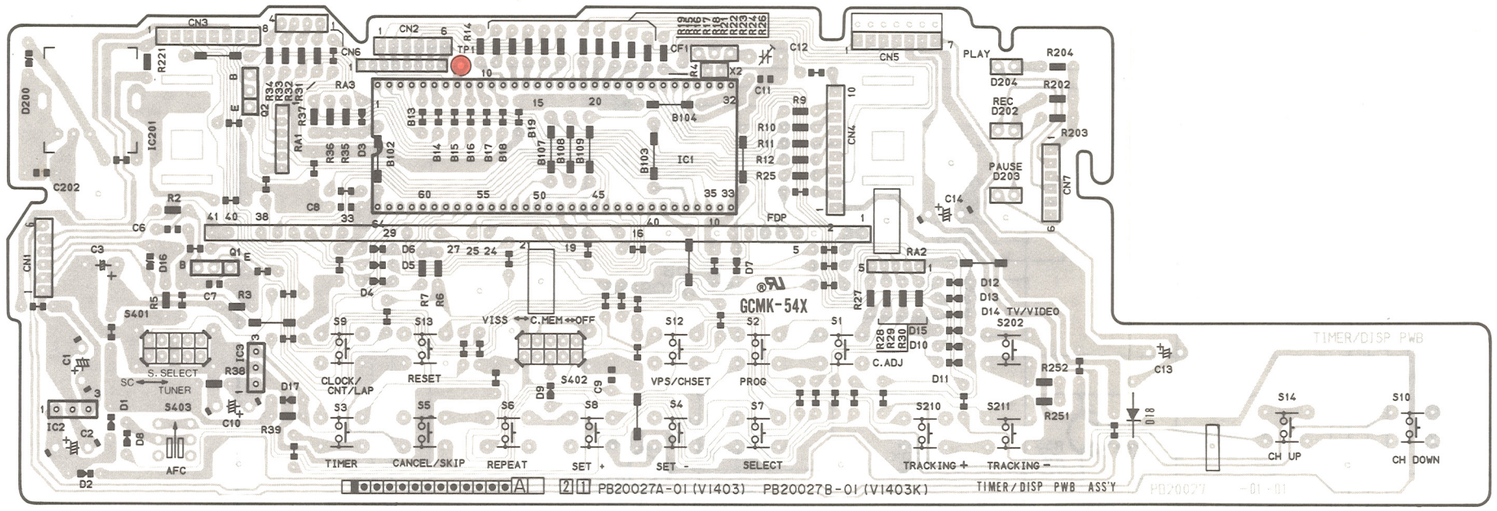
Tuner-/Kontrollschaltung
Tuner/CTL



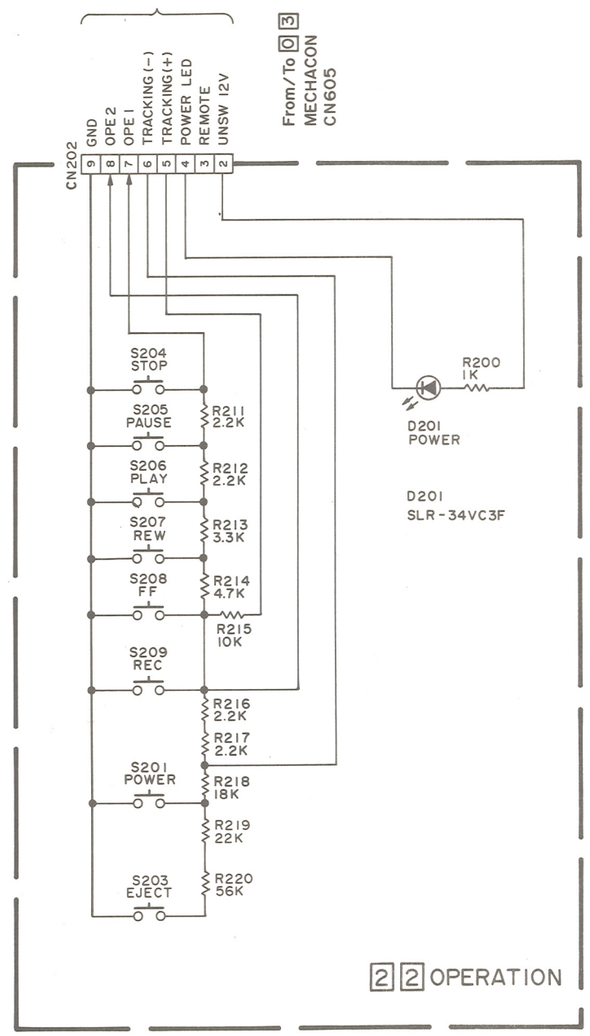
Tuner-/Kontrollschaltung
Tuner/CTL



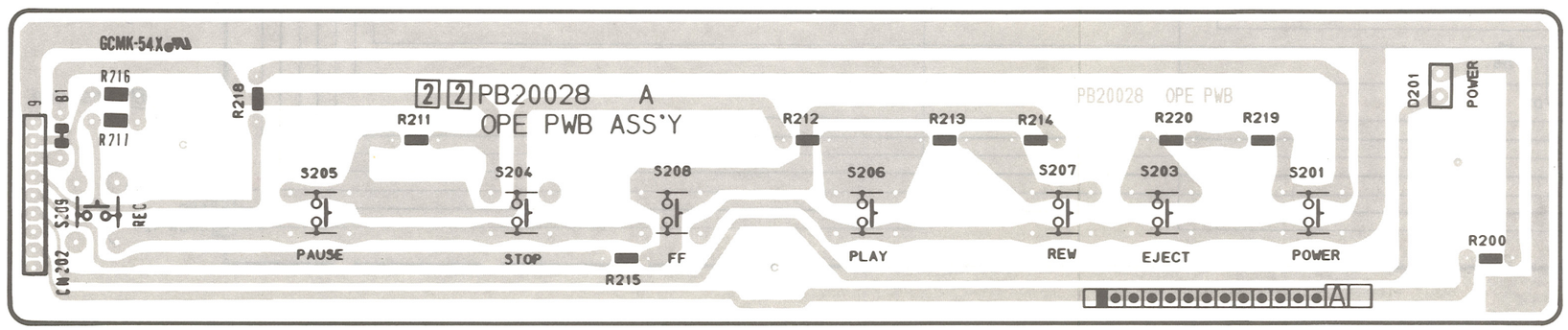
Timer-/Displayplatte
Timer/Display board



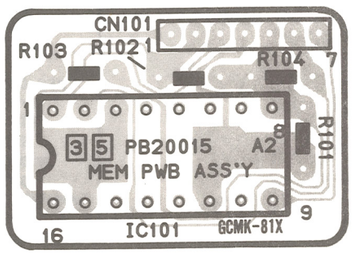
Bedienteil/Operation



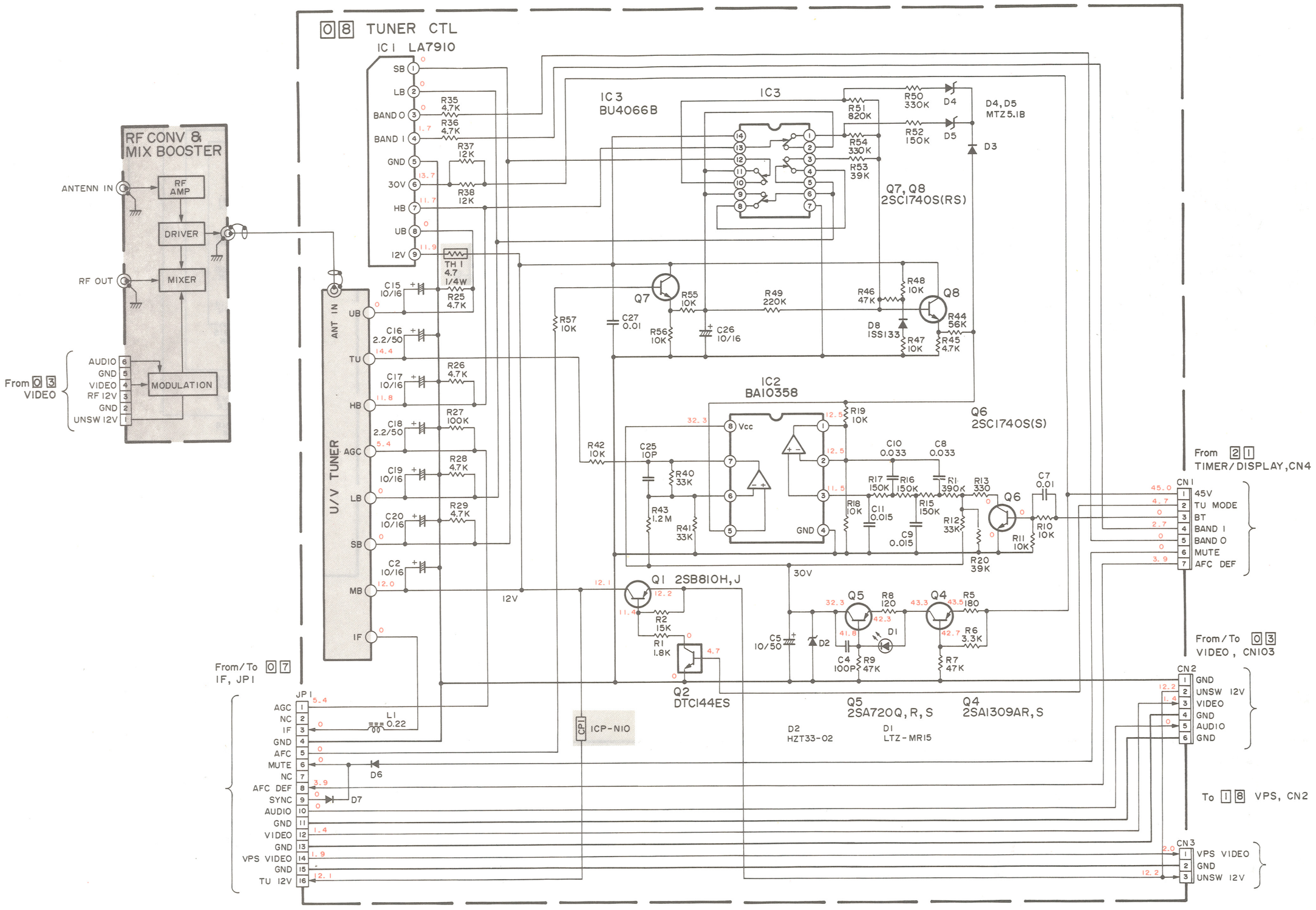
Bedienteilplatte
Operation board



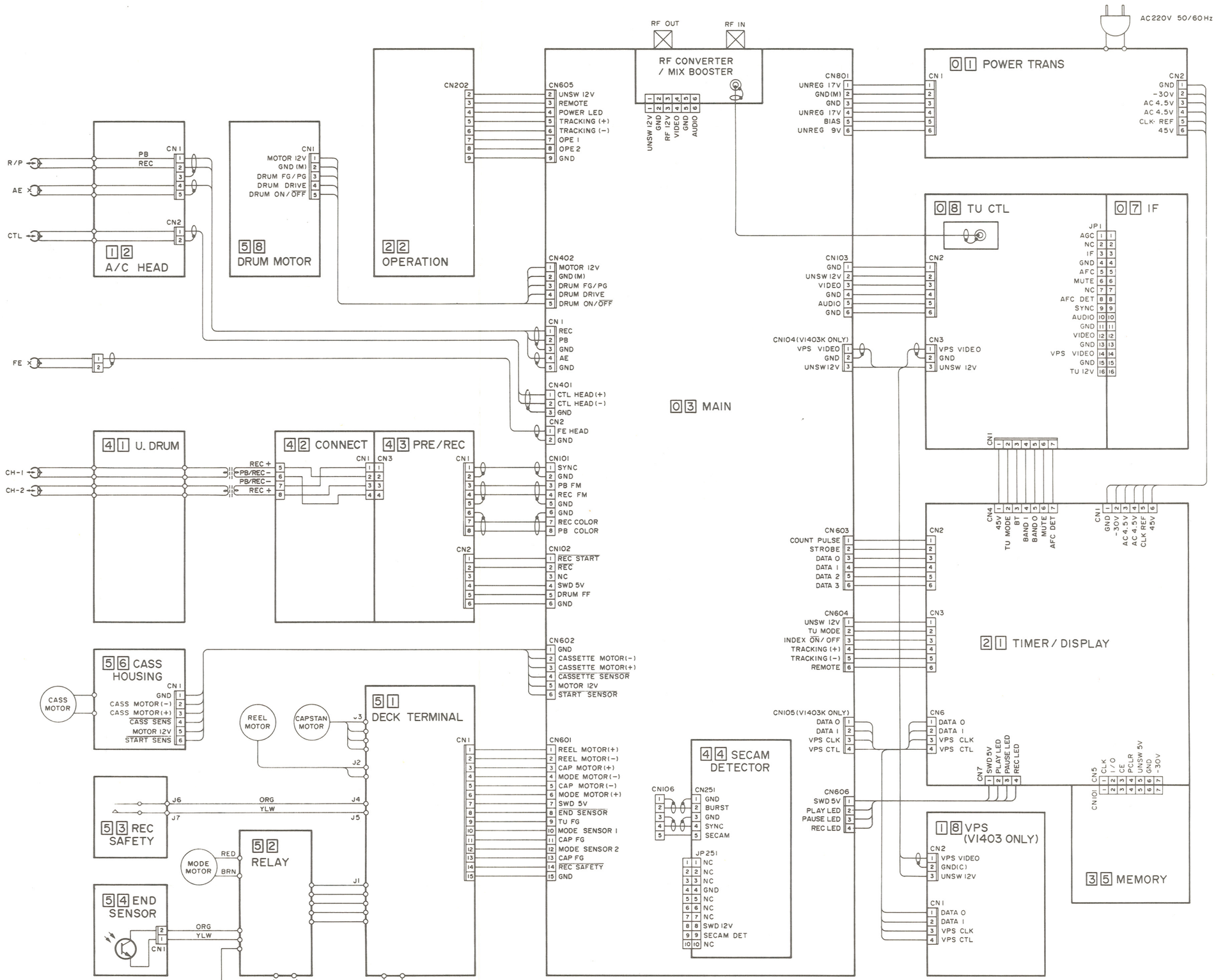
Memoryplatte
Memory board



Tuner-/Kontrollschaltung (Hyperband)
Tuner/CTL (Hyperband)

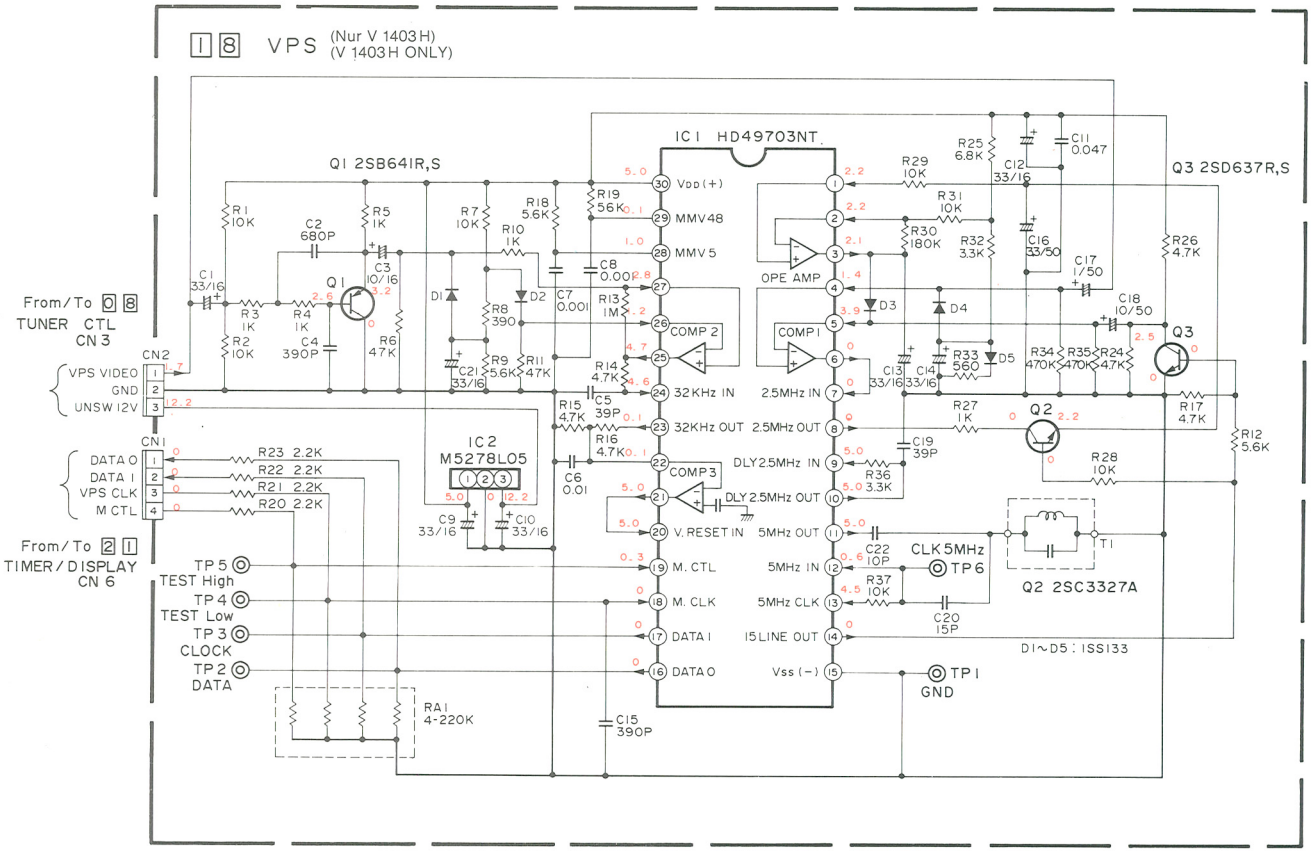


Verdrahtungsplan
Overall wiring diagram

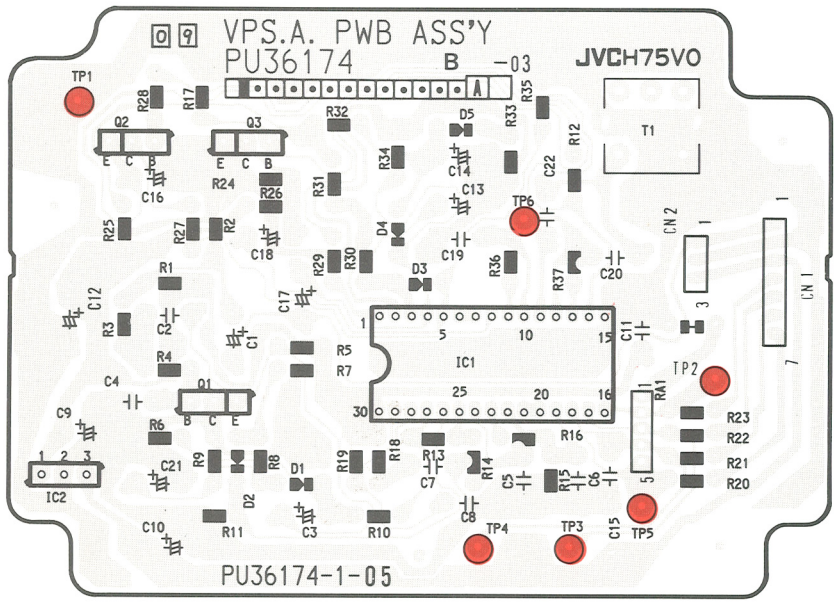


58	DRUM MOTOR
57	
56	CASSETTE HOUSING
55	
54	END SENSOR
53	REC SAFETY
52	RELAY
51	DECK TERMINAL
44	SECAM DETECTOR
43	PRE / REC
42	CONNECT
41	U. DRUM
35	MEMORY
22	OPERATION
21	TIMER / DISPLAY
20	
19	
18	VPS
12	A/C HEAD
11	
10	
09	
08	TU CTL
07	IF
06	
05	
04	
03	MAIN
02	
01	POWER TRANS
NO.	PWB NAME

VPS



VPS-Platte
VPS board



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2800 **Bremen 44**
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Funkschneise 13
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